

# Package ‘civis’

June 22, 2020

**Title** R Client for the 'Civis Platform API'

**Version** 3.0.0

**Description** A convenient interface for making requests directly to the 'Civis Platform API' <<https://www.civisanalytics.com/platform/>>. Full documentation available 'here' <<https://civisanalytics.github.io/civis-r/>>.

**Depends** R (>= 3.2.0)

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**LazyData** true

**URL** <https://github.com/civisanalytics/civis-r>

**BugReports** <https://github.com/civisanalytics/civis-r/issues>

**Imports** future (>= 1.8.0), httr, jsonlite, methods, memoise, stats, utils

**Suggests** feather, ggplot2, knitr, rmarkdown, roxygen2, mockery, R.utils, rstudioapi, testthat, yaml

**RoxygenNote** 7.1.0

**VignetteBuilder** knitr

**Collate** 'await.R' 'civis\_future.R' 'civis\_ml.R' 'civis\_ml\_plot.R' 'civis\_ml\_utils.R' 'civis\_ml\_workflows.R' 'client\_base.R' 'generate\_client.R' 'generated\_client.R' 'io.R' 'logs.R' 'pagination\_helpers.R' 'reports.R' 'rstudio.R' 'scripts.R' 'tables.R' 'utils.R' 'zzz.R'

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---

admin\_delete\_announcements  
*Delete an announcement*

---

### Description

Delete an announcement

### Usage

admin\_delete\_announcements(id)

### Arguments

id                    integer required. The ID of this announcement

### Value

An empty HTTP response

---

admin\_get\_announcements  
*Get a particular announcement*

---

### Description

Get a particular announcement

### Usage

admin\_get\_announcements(id)

**Arguments**

id integer required. The ID of this announcement

**Value**

A list containing the following elements:

id integer, The ID of this announcement  
 subject string, The subject of this announcement.  
 body string, The body of this announcement.  
 releasedAt string, The date and time this announcement was released.  
 createdAt string,  
 updatedAt string,

---

admin\_list\_announcements

*List announcements*

---

**Description**

List announcements

**Usage**

```
admin_list_announcements(  
  limit = NULL,  
  page_num = NULL,  
  order = NULL,  
  order_dir = NULL  
)
```

**Arguments**

limit integer optional. Number of results to return. Defaults to 10. Maximum allowed is 50.  
 page\_num integer optional. Page number of the results to return. Defaults to the first page, 1.  
 order string optional. The field on which to order the result set. Defaults to released\_at. Must be one of: released\_at.  
 order\_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The ID of this announcement
subject	string, The subject of this announcement.
body	string, The body of this announcement.
releasedAt	string, The date and time this announcement was released.
createdAt	string,
updatedAt	string,

---

admin\_list\_organizations

*List organizations*

---

**Description**

List organizations

**Usage**

```
admin_list_organizations(status = NULL, org_type = NULL)
```

**Arguments**

status	array optional. The status of the organization (active/trial/inactive).
org_type	array optional. The organization type (platform/ads/survey_vendor/other).

**Value**

An array containing the following fields:

id	integer, The ID of this organization.
name	string, The name of this organization.
slug	string, The slug of this organization.
accountManagerId	integer, The user ID of the Account Manager.
csSpecialistId	integer, The user ID of the Client Success Specialist.
status	string, The status of the organization (active/trial/inactive).
orgType	string, The organization type (platform/ads/survey_vendor/other).
customBranding	string, The custom branding settings.
contractSize	integer, The monthly contract size.
maxAnalystUsers	integer, The max number of full platform users for the org.

maxReportUsers	integer, The max number of report-only platform users for the org.
vertical	string, The business vertical that the organization belongs to.
csMetadata	string, Additional metadata about the organization in JSON format.
removeFooterInEmails	boolean, If true, emails sent by platform will not include Civis text.
salesforceAccountId	string, The Salesforce Account ID for this organization.
advancedSettings	list, A list containing the following elements: <ul style="list-style-type: none"> <li>dedicatedDjPoolEnabled boolean, If true, the Organization has a dedicated delayed jobs pool. Defaults to false.</li> </ul>
tableauRefreshHistory	array, The number of tableau refreshes used this month.

---

admin\_patch\_announcements

*Edit an announcement*


---

## Description

Edit an announcement

## Usage

```
admin_patch_announcements(id, subject = NULL, body = NULL, released_at = NULL)
```

## Arguments

id	integer required. The ID of this announcement
subject	string optional. The subject of this announcement.
body	string optional. The body of this announcement.
released_at	string optional. The date and time this announcement was released.

## Value

A list containing the following elements:

id	integer, The ID of this announcement
subject	string, The subject of this announcement.
body	string, The body of this announcement.
releasedAt	string, The date and time this announcement was released.
createdAt	string,
updatedAt	string,

---

admin\_patch\_themes      *Edit a theme*

---

### Description

Edit a theme

### Usage

```
admin_patch_themes(
  id,
  name = NULL,
  organization_ids = NULL,
  settings_json = NULL,
  logo_file_id = NULL
)
```

### Arguments

id	integer required. The ID of this theme.
name	string optional. The name of this theme.
organization_ids	array optional. List of organization ID's allowed to see this theme.
settings_json	string optional. The JSON-encoded theme configuration.
logo_file_id	string optional. The ID of the logo image file.

### Value

A list containing the following elements:

id	integer, The ID of this theme.
name	string, The name of this theme.
organizationIds	array, List of organization ID's allowed to use this theme.
settings	string, The theme configuration object.
logoFile	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of the logo image file.</li> <li>• downloadUrl string, The URL of the logo image file.</li> </ul>
createdAt	string,
updatedAt	string,

---

admin\_post\_announcements

*Post an announcement*

---

### Description

Post an announcement

### Usage

```
admin_post_announcements(subject, body, released_at = NULL)
```

### Arguments

subject	string required. The subject of this announcement.
body	string required. The body of this announcement.
released_at	string optional. The date and time this announcement was released.

### Value

A list containing the following elements:

id	integer, The ID of this announcement
subject	string, The subject of this announcement.
body	string, The body of this announcement.
releasedAt	string, The date and time this announcement was released.
createdAt	string,
updatedAt	string,

---

admin\_post\_themes

*Create a theme*

---

### Description

Create a theme

### Usage

```
admin_post_themes(  
  name,  
  settings_json,  
  organization_ids = NULL,  
  logo_file_id = NULL  
)
```

**Arguments**

name	string required. The name of this theme.
settings_json	string required. The JSON-encoded theme configuration.
organization_ids	array optional. List of organization ID's allowed to see this theme.
logo_file_id	string optional. The ID of the logo image file.

**Value**

A list containing the following elements:

id	integer, The ID of this theme.
name	string, The name of this theme.
organizationIds	array, List of organization ID's allowed to use this theme.
settings	string, The theme configuration object.
logoFile	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of the logo image file.</li> <li>• downloadUrl string, The URL of the logo image file.</li> </ul>
createdAt	string,
updatedAt	string,

---

aliases_delete	<i>Delete an alias</i>
----------------	------------------------

---

**Description**

Delete an alias

**Usage**

```
aliases_delete(id)
```

**Arguments**

id	integer required. The id of the Alias object.
----	---

**Value**

An empty HTTP response



---

`aliases_delete_shares_groups`*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
aliases_delete_shares_groups(id, group_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>group_id</code>	integer required. The ID of the group.

**Value**

An empty HTTP response

---

`aliases_delete_shares_users`*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
aliases_delete_shares_users(id, user_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>user_id</code>	integer required. The ID of the user.

**Value**

An empty HTTP response

---

 aliases\_get

*Get an Alias*


---

**Description**

Get an Alias

**Usage**

```
aliases_get(id)
```

**Arguments**

id	integer required.
----	-------------------

**Value**

A list containing the following elements:

id	integer, The id of the Alias object.
objectId	integer, The id of the object
objectType	string, The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
alias	string, The alias of the object
userId	integer, The id of the user who created the alias
displayName	string, The display name of the Alias object. Defaults to object name if not provided.

---

 aliases\_get\_object\_type

*Get details about an alias within an FCO type*


---

**Description**

Get details about an alias within an FCO type

**Usage**

```
aliases_get_object_type(object_type, alias)
```

**Arguments**

object_type	string required. The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
alias	string required. The alias of the object

**Value**

A list containing the following elements:

id	integer, The id of the Alias object.
objectId	integer, The id of the object
objectType	string, The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
alias	string, The alias of the object
userId	integer, The id of the user who created the alias
displayName	string, The display name of the Alias object. Defaults to object name if not provided.

---

 aliases\_list

*List Aliases*


---

**Description**

List Aliases

**Usage**

```
aliases_list(
  object_type = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

object_type	string optional. Filter results by object type. Pass multiple object types with a comma-separated list. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
-------------	--

limit	integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id, object_type.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

**Value**

An array containing the following fields:

id	integer, The id of the Alias object.
objectId	integer, The id of the object
objectType	string, The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
alias	string, The alias of the object
userId	integer, The id of the user who created the alias
displayName	string, The display name of the Alias object. Defaults to object name if not provided.

---

aliases\_list\_shares    *List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

aliases\_list\_shares(id)

**Arguments**

id	integer required. The ID of the resource that is shared.
----	--

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

aliases_patch	<i>Update some attributes of this Alias</i>
---------------	---

---

**Description**

Update some attributes of this Alias

**Usage**

```
aliases_patch(
  id,
  object_id = NULL,
  object_type = NULL,
  alias = NULL,
  display_name = NULL
)
```

**Arguments**

id	integer required. The id of the Alias object.
object_id	integer optional. The id of the object
object_type	string optional. The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
alias	string optional. The alias of the object
display_name	string optional. The display name of the Alias object. Defaults to object name if not provided.

**Value**

A list containing the following elements:

id	integer, The id of the Alias object.
objectId	integer, The id of the object
objectType	string, The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
alias	string, The alias of the object
userId	integer, The id of the user who created the alias
displayName	string, The display name of the Alias object. Defaults to object name if not provided.

---

 aliases\_post

*Create an Alias*


---

**Description**

Create an Alias

**Usage**

```
aliases_post(object_id, object_type, alias, display_name = NULL)
```

**Arguments**

object_id	integer required. The id of the object
object_type	string required. The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
alias	string required. The alias of the object
display_name	string optional. The display name of the Alias object. Defaults to object name if not provided.

**Value**

A list containing the following elements:

id	integer, The id of the Alias object.
objectId	integer, The id of the object

objectType	string, The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
alias	string, The alias of the object
userId	integer, The id of the user who created the alias
displayName	string, The display name of the Alias object. Defaults to object name if not provided.

---

aliases_put	<i>Replace all attributes of this Alias</i>
-------------	---

---

### Description

Replace all attributes of this Alias

### Usage

```
aliases_put(id, object_id, object_type, alias, display_name = NULL)
```

### Arguments

id	integer required. The id of the Alias object.
object_id	integer required. The id of the object
object_type	string required. The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
alias	string required. The alias of the object
display_name	string optional. The display name of the Alias object. Defaults to object name if not provided.

### Value

A list containing the following elements:

id	integer, The id of the Alias object.
objectId	integer, The id of the object
objectType	string, The type of the object. Valid types include: model, cass_ncoa, container_script, gdoc_export, geocode, media_optimizer, python_script, r_script, salesforce_export, javascript_script, sql_script, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
alias	string, The alias of the object
userId	integer, The id of the user who created the alias
displayName	string, The display name of the Alias object. Defaults to object name if not provided.

---

 aliases\_put\_shares\_groups

*Set the permissions groups has on this object*


---

**Description**

Set the permissions groups has on this object

**Usage**

```
aliases_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.



totalGroupShares  
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

aliases\_put\_shares\_users

*Set the permissions users have on this object*

---

## Description

Set the permissions users have on this object

## Usage

```
aliases_put_shares_users(  
  id,  
  user_ids,  
  permission_level,  
  share_email_body = NULL,  
  send_shared_email = NULL  
)
```

## Arguments

id integer required. The ID of the resource that is shared.  
user\_ids array required. An array of one or more user IDs.  
permission\_level string required. Options are: "read", "write", or "manage".  
share\_email\_body string optional. Custom body text for e-mail sent on a share.  
send\_shared\_email boolean optional. Send email to the recipients of a share.

## Value

A list containing the following elements:

readers list, A list containing the following elements:

- users array,
- groups array,

writers list, A list containing the following elements:

- users array,
- groups array,

owners list, A list containing the following elements:

- users array,

- groups array,
- totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

announcements\_list      *List announcements*

---

### Description

List announcements

### Usage

```
announcements_list(
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

### Arguments

- limit integer optional. Number of results to return. Defaults to 10. Maximum allowed is 50.
- page\_num integer optional. Page number of the results to return. Defaults to the first page, 1.
- order string optional. The field on which to order the result set. Defaults to released\_at. Must be one of: released\_at.
- order\_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

### Value

An array containing the following fields:

- id integer, The ID of this announcement
- subject string, The subject of this announcement.
- body string, The body of this announcement.
- releasedAt string, The date and time this announcement was released.
- createdAt string,
- updatedAt string,

---

apps\_delete\_instances\_projects  
*Remove an App Instance from a project*

---

**Description**

Remove an App Instance from a project

**Usage**

```
apps_delete_instances_projects(id, project_id, slug)
```

**Arguments**

id	integer required. The ID of the App Instance.
project_id	integer required. The ID of the project.
slug	string required. The slug for the application.

**Value**

An empty HTTP response

---

apps\_delete\_instances\_shares\_groups  
*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
apps_delete_instances_shares_groups(slug, id, group_id)
```

**Arguments**

slug	string required. The slug for the application.
id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

apps\_delete\_instances\_shares\_users

*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

apps\_delete\_instances\_shares\_users(slug, id, user\_id)

**Arguments**

slug	string required. The slug for the application.
id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

apps\_delete\_releases\_shares\_groups

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

apps\_delete\_releases\_shares\_groups(slug, id, group\_id)

**Arguments**

slug	string required. The slug for the application.
id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

apps\_delete\_releases\_shares\_users

*Revoke the permissions a user has on this object*

---

### **Description**

Revoke the permissions a user has on this object

### **Usage**

```
apps_delete_releases_shares_users(slug, id, user_id)
```

### **Arguments**

slug	string required. The slug for the application.
id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

### **Value**

An empty HTTP response

---

apps\_get

*List details of a Decision Application*

---

### **Description**

List details of a Decision Application

### **Usage**

```
apps_get(slug)
```

### **Arguments**

slug	string required. The slug for the application.
------	--

**Value**

A list containing the following elements:

slug	string, The slug for the application.
id	integer, The unique id of the application.
instanceName	string, A word that describes an instance of this app.
name	string, The name of the application.
currentRelease	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The unique id of the release.</li> <li>• appId integer, The id of the app the release belongs to.</li> <li>• reportTemplateId integer, ID of the report template for this release.</li> <li>• resources object, A hash of resources associated with this release.</li> <li>• archived string, The archival status of the requested item(s).</li> </ul>
features	list, App features.

---

apps\_get\_instances      *Return a given app instance*

---

**Description**

Return a given app instance

**Usage**

```
apps_get_instances(id, slug)
```

**Arguments**

id	integer required. The unique id of the instance.
slug	string required. The slug for the application.

**Value**

A list containing the following elements:

id	integer, The unique id of the instance.
name	string, The name of the instance.
appReleaseId	integer, The id of the app release the instance belongs to.
reportId	integer, The id of the report the instance belongs to.
createdAt	string, The time the instance was created at.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> </ul>

	<ul style="list-style-type: none"> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
projectId	integer, The id of the project collecting all the items that belong to this app instance.
authCodeUrl	string,
apiKey	string, A Civis API key that can be used by this app instance.
archived	string, The archival status of the requested item(s).

---

apps\_get\_releases      *Return a given app release*

---

## Description

Return a given app release

## Usage

```
apps_get_releases(id, slug)
```

## Arguments

id	integer required. The unique id of the release.
slug	string required. The slug for the application.

## Value

A list containing the following elements:

id	integer, The unique id of the release.
appId	integer, The id of the app the release belongs to.
reportTemplateId	integer, ID of the report template for this release.
resources	list, A hash of resources associated with this release.
archived	string, The archival status of the requested item(s).

---

apps_list	<i>List apps</i>
-----------	------------------

---

**Description**

List apps

**Usage**

```
apps_list()
```

**Value**

An array containing the following fields:

slug	string, The slug for the application.
id	integer, The unique id of the application.
instanceName	string, A word that describes an instance of this app.
name	string, The name of the application.

---

apps_list_instances	<i>List the instances of a Decision Application</i>
---------------------	---

---

**Description**

List the instances of a Decision Application

**Usage**

```
apps_list_instances(  
    slug,  
    archived = NULL,  
    app_release_id = NULL,  
    limit = NULL,  
    page_num = NULL,  
    order = NULL,  
    order_dir = NULL  
)
```



**Arguments**

slug	string required. The slug for the application.
archived	string optional. The archival status of the requested item(s).
app_release_id	integer optional. If supplied, return only instances matching this release.
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id, created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

**Value**

An array containing the following fields:

id	integer, The unique id of the instance.
name	string, The name of the instance.
appReleaseId	integer, The id of the app release the instance belongs to.
reportId	integer, The id of the report the instance belongs to.
createdAt	string, The time the instance was created at.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
projectId	integer, The id of the project collecting all the items that belong to this app instance.
archived	string, The archival status of the requested item(s).

---

apps\_list\_instances\_projects

*List the projects an App Instance belongs to*

---

**Description**

List the projects an App Instance belongs to

**Usage**

```
apps_list_instances_projects(id, slug, hidden = NULL)
```

**Arguments**

id	integer required. The ID of the App Instance.
slug	string required. The slug for the application.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

apps\_list\_instances\_shares

*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

apps\_list\_instances\_shares(slug, id)

**Arguments**

slug	string required. The slug for the application.
id	integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

apps\_list\_releases      *List the releases of a particular Decision Application*

---

**Description**

List the releases of a particular Decision Application

**Usage**

```
apps_list_releases(
  slug,
  archived = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

slug	string required. The slug for the application.
archived	string optional. The archival status of the requested item(s).
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

**Value**

An array containing the following fields:

id	integer, The unique id of the release.
appId	integer, The id of the app the release belongs to.
reportTemplateId	integer, ID of the report template for this release.
resources	list, A hash of resources associated with this release.
archived	string, The archival status of the requested item(s).

---

apps\_list\_releases\_shares

*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

apps\_list\_releases\_shares(slug, id)

**Arguments**

slug	string required. The slug for the application.
id	integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

apps\_patch\_instances    *Update a given app instance*

---

**Description**

Update a given app instance

**Usage**

```
apps_patch_instances(id, slug, name = NULL)
```

**Arguments**

id	integer required. The unique id of the instance.
slug	string required. The slug for the application.
name	string optional. The name of the instance.

**Value**

A list containing the following elements:

id	integer, The unique id of the instance.
name	string, The name of the instance.
appReleaseId	integer, The id of the app release the instance belongs to.
reportId	integer, The id of the report the instance belongs to.

createdAt	string, The time the instance was created at.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
projectId	integer, The id of the project collecting all the items that belong to this app instance.
authCodeUrl	string,
apiKey	string, A Civis API key that can be used by this app instance.
archived	string, The archival status of the requested item(s).

---

apps\_patch\_releases     *Update an existing Decision Application release*

---

### Description

Update an existing Decision Application release

### Usage

```
apps_patch_releases(slug, id, report_template_id = NULL, resources = NULL)
```

### Arguments

slug	string required. The slug for the application.
id	integer required. The unique id of the release.
report_template_id	integer optional. ID of the report template for this release.
resources	list optional. A hash of resources associated with this release.

### Value

A list containing the following elements:

id	integer, The unique id of the release.
appId	integer, The id of the app the release belongs to.
reportTemplateId	integer, ID of the report template for this release.
resources	list, A hash of resources associated with this release.
archived	string, The archival status of the requested item(s).

---

apps\_post\_instances     *Create a new instance of an application of the given slug*

---

### Description

Create a new instance of an application of the given slug

### Usage

```
apps_post_instances(slug, name = NULL)
```

### Arguments

slug	string required. The slug for the application.
name	string optional. The name of the instance.

### Value

A list containing the following elements:

id	integer, The unique id of the instance.
name	string, The name of the instance.
appReleaseId	integer, The id of the app release the instance belongs to.
reportId	integer, The id of the report the instance belongs to.
createdAt	string, The time the instance was created at.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
projectId	integer, The id of the project collecting all the items that belong to this app instance.
authCodeUrl	string,
apiKey	string, A Civis API key that can be used by this app instance.
archived	string, The archival status of the requested item(s).

---

apps\_post\_releases      *Create a new Decision Application release*

---

**Description**

Create a new Decision Application release

**Usage**

apps\_post\_releases(slug, report\_template\_id, resources)

**Arguments**

slug                      string required. The slug for the application.  
report\_template\_id                      integer required. ID of the report template for this release.  
resources                      list required. A hash of resources associated with this release.

**Value**

A list containing the following elements:

id                      integer, The unique id of the release.  
appId                      integer, The id of the app the release belongs to.  
reportTemplateId                      integer, ID of the report template for this release.  
resources                      list, A hash of resources associated with this release.  
archived                      string, The archival status of the requested item(s).

---

apps\_put\_features      *Update the Decision Application features for a given organization*

---

**Description**

Update the Decision Application features for a given organization

**Usage**

apps\_put\_features(slug, org, features)

**Arguments**

slug                      string required. The slug for the application.  
org                      string required. Organization.  
features                      list required. App features.



**Value**

A list containing the following elements:

slug	string, The slug for the application.
id	integer, The unique id of the application.
instanceName	string, A word that describes an instance of this app.
name	string, The name of the application.
currentRelease	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The unique id of the release.</li> <li>• appId integer, The id of the app the release belongs to.</li> <li>• reportTemplateId integer, ID of the report template for this release.</li> <li>• resources object, A hash of resources associated with this release.</li> <li>• archived string, The archival status of the requested item(s).</li> </ul>
features	list, App features.

---

apps\_put\_instances\_archive

*Update the archive status of this object*

---

**Description**

Update the archive status of this object

**Usage**

```
apps_put_instances_archive(id, slug, status)
```

**Arguments**

id	integer required. The ID of the object.
slug	string required. The slug for the application.
status	boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

id	integer, The unique id of the instance.
name	string, The name of the instance.
appReleaseId	integer, The id of the app release the instance belongs to.
reportId	integer, The id of the report the instance belongs to.
createdAt	string, The time the instance was created at.
user	list, A list containing the following elements:

	<ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
projectId	integer, The id of the project collecting all the items that belong to this app instance.
authCodeUrl	string,
apiKey	string, A Civis API key that can be used by this app instance.
archived	string, The archival status of the requested item(s).

---

apps\_put\_instances\_projects

*Add an App Instance to a project*

---

### Description

Add an App Instance to a project

### Usage

apps\_put\_instances\_projects(id, project\_id, slug)

### Arguments

id	integer required. The ID of the App Instance.
project_id	integer required. The ID of the project.
slug	string required. The slug for the application.

### Value

An empty HTTP response

---

 apps\_put\_instances\_shares\_groups

*Set the permissions groups has on this object*


---

## Description

Set the permissions groups has on this object

## Usage

```
apps_put_instances_shares_groups(
    slug,
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

## Arguments

slug	string required. The slug for the application.
id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

## Value

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>

totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

apps\_put\_instances\_shares\_users

*Set the permissions users have on this object*

---

### Description

Set the permissions users have on this object

### Usage

```
apps_put_instances_shares_users(
    slug,
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

### Arguments

slug	string required. The slug for the application.
id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

### Value

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements:

	<ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

 apps\_put\_releases\_archive

*Update the archive status of this object*


---

### Description

Update the archive status of this object

### Usage

```
apps_put_releases_archive(id, slug, status)
```

### Arguments

id	integer required. The ID of the object.
slug	string required. The slug for the application.
status	boolean required. The desired archived status of the object.

### Value

A list containing the following elements:

id	integer, The unique id of the release.
appId	integer, The id of the app the release belongs to.
reportTemplateId	integer, ID of the report template for this release.
resources	list, A hash of resources associated with this release.
archived	string, The archival status of the requested item(s).

---

 apps\_put\_releases\_shares\_groups

*Set the permissions groups has on this object*


---

### Description

Set the permissions groups has on this object

### Usage

```
apps_put_releases_shares_groups(
  slug,
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

### Arguments

slug	string required. The slug for the application.
id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

### Value

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>

totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

apps\_put\_releases\_shares\_users

*Set the permissions users have on this object*

---

### Description

Set the permissions users have on this object

### Usage

```
apps_put_releases_shares_users(
  slug,
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

### Arguments

slug	string required. The slug for the application.
id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

### Value

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements:

	<ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

await	<i>Call a function repeatedly until a status is reached.</i>
-------	--

---

### Description

await repeatedly calls a Civis API endpoint such as `scripts_get_sql_runs` that monitors the status of a script, job, import, or model. It blocks until the function returns a result with a successful or error status. If the script, job, import or model results in an error state, await throws an error with useful debugging information.

await\_all is a vectorized version of await. It repeatedly calls a Civis API endpoint for all values of a vector, e.g. a vector of script, job, import, run, or model ids. It blocks until all calls have returned a result with a given status, and silently captures jobs that return errors.

### Usage

```
await(
  f,
  ...,
  .status_key = "state",
  .success_states = c("succeeded", "success"),
  .error_states = c("failed", "cancelled"),
  .timeout = NULL,
  .interval = getOption("civis.default_polling_interval"),
  .verbose = FALSE
)
```

```
await_all(
  f,
  .x,
  .y = NULL,
  ...,
  .status_key = "state",
  .success_states = c("succeeded", "success"),
```



```

    .error_states = c("failed", "cancelled"),
    .timeout = NULL,
    .interval = NULL,
    .verbose = FALSE
  )

```

## Arguments

<code>f</code>	function to be called repeatedly until a status is reached.
<code>...</code>	arguments to <code>f</code>
<code>.status_key</code>	The name of the element of the list returned by <code>f</code> containing the status. For most Civis API endpoints, this is the default, "state".
<code>.success_states</code>	list of states indicating remote work has completed successfully. For most Civis API endpoints, this set of states is the default, <code>c("succeeded", "success")</code> .
<code>.error_states</code>	list of states indicating remote work is in an error state. For most Civis API endpoints, this set of states is the default, <code>c("failed", "cancelled")</code> .
<code>.timeout</code>	Number of seconds after which to timeout.
<code>.interval</code>	The interval for retries (in seconds). If <code>NULL</code> (default), use exponentially increasing intervals with jitter (see 'Details')
<code>.verbose</code>	Print the status of <code>f</code> at a given retry with the retry time (default <code>FALSE</code> )
<code>.x</code>	a vector of values to be passed to <code>f</code>
<code>.y</code>	a vector of values to be passed to <code>f</code> (default <code>NULL</code> )

## Details

`await` and `await_all` can wrap Civis API endpoints in `generated_client.R`. The default values for `.status_key`, `.success_states`, and `.error_states` are suitable for most endpoints. The final status of `f` can be obtained using [get\\_status](#).

If an error state is reached, `await` throws a `civis_await_error`. `await_all` silently captures and returns a `civis_await_error` for any job reaching an error state as an element in the list of results.

If `.timeout` is specified and the job fails to reach a success state within the time limit, `await` throws a `civis_timeout_error`. Likewise, `await_all` throws a `civis_timeout_error` if all jobs fail to reach a success state within the time limit.

These errors can be caught using `try` or `tryCatch`. Useful debugging information can be returned using [get\\_error](#) and [fetch\\_logs](#).

The set of possible states for jobs on Civis platform are: "succeeded", "success", "failed", "queued", "running", and "cancelled".

Unless `.interval` is specified, retries are attempted with exponentially increasing intervals using  $.25 * (1.2^i) + \text{runif}(1, 0, .2)$ , where `i` is the index of the current retry. Approximate intervals for a given number of retries are as follows:

- 1-5: .5s
- 6-10: 1-5s
- 11-19: 5-10s

- 20-29: 10s - 1m

The polling interval can be set to a fixed value globally with `options("civis.default_polling_interval" = INTERVAL_IN_SECONDS)`.

### Functions

- `await_all`: Call a function repeatedly for all values of a vector until all have reached a completed status

### See Also

[get\\_status](#), [get\\_error](#), [fetch\\_logs](#)

### Examples

```
## Not run:

# Executing a query
q_id <- queries_post(db_id, query, n_rows, cred_id)[["id"]]
r <- await(queries_get, id = q_id)
get_status(r)

r <- tryCatch(await(queries_get, id = q_id), error = function(e) e)
get_error(r)

r <- try(await(queries_get, id = q_id))
get_error(r)

jobs <- c(1234, 5678)
runs <- c(1234, 5678)
rs <- await_all(scripts_get_r_runs, .x = jobs, .y = runs)

## End(Not run)
```

---

cancel

*Cancel the evaluation of a CivisFuture.*

---

### Description

Cancel the evaluation of a CivisFuture.

### Usage

```
cancel(future, ...)
```

### Arguments

future	CivisFuture object.
...	unused for CivisFuture.

---

`CivisFuture`*Evaluate an expression in Civis Platform*

---

**Description**

Evaluate an expression in Civis Platform

**Usage**

```
CivisFuture(  
  expr = NULL,  
  envir = parent.frame(),  
  substitute = FALSE,  
  globals = TRUE,  
  packages = NULL,  
  lazy = FALSE,  
  local = TRUE,  
  gc = FALSE,  
  earlySignal = FALSE,  
  label = NULL,  
  required_resources = list(cpu = 1024, memory = 2048, diskSpace = 4),  
  docker_image_name = "civisanalytics/datascience-r",  
  docker_image_tag = "latest",  
  ...  
)  
  
## S3 method for class 'CivisFuture'  
run(future, ...)  
  
## S3 method for class 'CivisFuture'  
result(future, ...)  
  
## S3 method for class 'CivisFuture'  
cancel(future, ...)  
  
## S3 method for class 'CivisFuture'  
resolved(future, ...)  
  
## S3 method for class 'CivisFuture'  
fetch_logs(object, ...)
```

**Arguments**

<code>expr</code>	An R <a href="#">expression</a> .
<code>envir</code>	The <a href="#">environment</a> from where global objects should be identified.
<code>substitute</code>	If TRUE, argument <code>expr</code> is <a href="#">substitute()</a> :ed, otherwise not.

globals	(optional) a logical, a character vector, or a named list to control how globals are handled. For details, see section 'Globals used by future expressions' in the help for <a href="#">future()</a> .
packages	(optional) a character vector specifying packages to be attached in the R environment evaluating the future.
lazy	If FALSE (default), the future is resolved eagerly (starting immediately), otherwise not.
local	If TRUE, the expression is evaluated such that all assignments are done to local temporary environment, otherwise the assignments are done to the global environment of the R process evaluating the future.
gc	If TRUE, the garbage collector run (in the process that evaluated the future) only after the value of the future is collected. Exactly when the values are collected may depend on various factors such as number of free workers and whether <code>earlySignal</code> is TRUE (more frequently) or FALSE (less frequently). <i>Some types of futures ignore this argument.</i>
earlySignal	Specified whether conditions should be signaled as soon as possible or not.
label	An optional character string label attached to the future.
required_resources	resources, see <a href="#">scripts_post_containers</a>
docker_image_name	the image for the container script.
docker_image_tag	the tag for the Docker image.
...	arguments to <a href="#">scripts_post_containers</a>
future	CivisFuture object.
object	CivisFuture

**Value**

A CivisFuture inheriting from [Future](#) that evaluates `expr` on the given container.

**Methods (by generic)**

- `run`: Run a CivisFuture
- `result`: Return the value of a CivisFuture
- `cancel`: Cancel a CivisFuture
- `resolved`: Check if a CivisFuture has resolved
- `fetch_logs`: Fetch logs from a CivisFuture

---

civis_file	<i>A file in the Civis Platform</i>
------------	-------------------------------------

---

**Description**

Use `civis_file` to use a file in the Civis Platform with [civis\\_ml](#).

**Usage**

```
civis_file(file_id)
```

**Arguments**

<code>file_id</code>	The id of a Civis file.
----------------------	-------------------------

**Value**

A `civis_file`.

---

civis_file_manifest	<i>A manifest file in the Civis Platform</i>
---------------------	--

---

**Description**

Use `civis_file_manifest` to use a manifest file in the Civis Platform with [civis\\_ml](#).

**Usage**

```
civis_file_manifest(file_id)
```

**Arguments**

<code>file_id</code>	The id of a Civis file.
----------------------	-------------------------

**Value**

A `civis_file_manifest`

---

civis\_ml

*Interface for modeling in the Civis Platform*


---

## Description

An interface for training and scoring data on Civis Platform using a set of Scikit-Learn estimators.

## Usage

```
civis_ml(
  x,
  dependent_variable,
  model_type,
  primary_key = NULL,
  excluded_columns = NULL,
  parameters = NULL,
  fit_params = NULL,
  cross_validation_parameters = NULL,
  calibration = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  disk_requested = NULL,
  notifications = NULL,
  polling_interval = NULL,
  validation_data = c("train", "skip"),
  n_jobs = NULL,
  verbose = FALSE,
  civismml_version = "prod"
)
```

```
civis_ml_fetch_existing(model_id, run_id = NULL)
```

```
## S3 method for class 'civis_ml'
```

```
predict(
  object,
  newdata,
  primary_key = NA,
  output_table = NULL,
  output_db = NULL,
  if_output_exists = c("fail", "append", "drop", "truncate"),
  n_jobs = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
```

```

    disk_requested = NULL,
    polling_interval = NULL,
    verbose = FALSE,
    dvs_to_predict = NULL,
    ...
)

```

## Arguments

<code>x, newdata</code>	See the Data Sources section below.
<code>dependent_variable</code>	The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.
<code>model_type</code>	The name of the CivisML workflow. See the Workflows section below.
<code>primary_key</code>	Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In <code>predict.civis_ml</code> , the <code>primary_key</code> of the training task is used by default <code>primary_key = NA</code> . Use <code>primary_key = NULL</code> to explicitly indicate the data have no <code>primary_key</code> .
<code>excluded_columns</code>	Optional, a vector of columns which will be considered ineligible to be independent variables.
<code>parameters</code>	Optional, parameters for the final stage estimator in a predefined model, e.g. <code>list(C = 2)</code> for a "sparse_logistic" model.
<code>fit_params</code>	Optional, a mapping from parameter names in the model's fit method to the column names which hold the data, e.g. <code>list(sample_weight = 'survey_weight_column')</code> .
<code>cross_validation_parameters</code>	Optional, parameter grid for learner parameters, e.g. <code>list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3))</code> or "hyperband" for supported models.
<code>calibration</code>	Optional, if not NULL, calibrate output probabilities with the selected method, sigmoid, or isotonic. Valid only with classification models.
<code>oos_scores_table</code>	Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".
<code>oos_scores_db</code>	Optional, the name of the database where the <code>oos_scores_table</code> will be created. If not provided, this will default to <code>database_name</code> .
<code>oos_scores_if_exists</code>	Optional, action to take if <code>oos_scores_table</code> already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".
<code>model_name</code>	Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.
<code>cpu_requested</code>	Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

memory_requested	Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.
disk_requested	Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.
notifications	Optional, model status notifications. See <a href="#">scripts_post_custom</a> for further documentation about email and URL notification.
polling_interval	Check for job completion every this number of seconds.
validation_data	Optional, source for validation data. There are currently two options: train (the default), which uses training data for validation, and skip, which skips the validation step.
n_jobs	Number of concurrent Platform jobs to use for training and validation, or multi-file / large table prediction. Defaults to NULL, which allows CivisML to dynamically calculate an appropriate number of workers to use (in general, as many as possible without using all resources in the cluster).
verbose	Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.
civisml_version	Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production
model_id	The id of CivisML model built previously.
run_id	Optional, the id of a CivisML model run. If NULL, defaults to fetching the latest run.
object	A <code>civis_ml</code> object.
output_table	The table in which to put predictions.
output_db	The database containing <code>output_table</code> . If not provided, this will default to the <code>database_name</code> specified when the model was built.
if_output_exists	Action to take if the prediction table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".
dvs_to_predict	Optional, For scoring, this should be a vector of column names of dependent variables to include in the output table. It must be a subset of the <code>dependent_variable</code> vector provided for training. The scores for the returned subset will be identical to the scores which those outputs would have had if all outputs were written, but ignoring some of the model's outputs will let predictions complete faster and use less disk space. If not provided, the entire model output will be written to the output table.
...	Unused

**Value**

A `civis_ml` object, a list containing the following elements:



job	job metadata from <a href="#">scripts_get_custom</a> .
run	run metadata from <a href="#">scripts_get_custom_runs</a> .
outputs	CivisML metadata from <a href="#">scripts_list_custom_runs_outputs</a> containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.
metrics	<p>Parsed CivisML output from <code>metrics.json</code> containing metadata from validation. A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• run list, metadata about the run.</li> <li>• data list, metadata about the training data.</li> <li>• model list, the fitted scikit-learn model with CV results.</li> <li>• metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).</li> <li>• warnings list.</li> <li>• data_platform list, training data location.</li> </ul>
model_info	<p>Parsed CivisML output from <code>model_info.json</code> containing metadata from training. A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• run list, metadata about the run.</li> <li>• data list, metadata about the training data.</li> <li>• model list, the fitted scikit-learn model.</li> <li>• metrics empty list.</li> <li>• warnings list.</li> <li>• data_platform list, training data location.</li> </ul>

### CivisML Workflows

You can use the following pre-defined models with `civis_ml`. All models start by imputing missing values with the mean of non-null values in a column. The "sparse\_\*" models include a LASSO regression step (using `glmnet`) to do feature selection before passing data to the final model. In some models, CivisML uses default parameters from those in [Scikit-Learn](#), as indicated in the "Altered Defaults" column. All models also have `random_state=42`.

Specific workflows can also be called directly using the R workflow functions.

	Name	R Workflow	Model Type	
	<code>sparse_logistic</code>	<a href="#">civis_ml_sparse_logistic</a>	classification	LogisticR
	<code>gradient_boosting_classifier</code>	<a href="#">civis_ml_gradient_boosting_classifier</a>	classification	GradientBoosting
	<code>random_forest_classifier</code>	<a href="#">civis_ml_random_forest_classifier</a>	classification	RandomForest
	<code>extra_trees_classifier</code>	<a href="#">civis_ml_extra_trees_classifier</a>	classification	ExtraTrees
multilayer_perceptron_classifier			classification	muffnn.MLP
stacking_classifier			classification	Stacked
sparse_linear_regressor		<a href="#">civis_ml_sparse_linear_regressor</a>	regression	LinearR
sparse_ridge_regressor		<a href="#">civis_ml_sparse_ridge_regressor</a>	regression	
gradient_boosting_regressor		<a href="#">civis_ml_gradient_boosting_regressor</a>	regression	GradientBoosting
random_forest_regressor		<a href="#">civis_ml_random_forest_regressor</a>	regression	RandomForest
extra_trees_regressor		<a href="#">civis_ml_extra_trees_regressor</a>	regression	ExtraTrees
multilayer_perceptron_regressor			regression	muffnn.MLP
stacking_regressor			regression	Stacked

Model names can be easily accessed using the global variables CIVIS\_ML\_REGRESSORS and CIVIS\_ML\_CLASSIFIERS.

## Stacking

The "stacking\_classifier" model stacks together the "gradient\_boosting\_classifier" and "random\_forest\_classifier" predefined models together with a `glmnet.LogitNet(alpha=0,n_splits=4,max_iter=10000)`. Defaults for the predefined models are documented in `?civis_ml`. Each column is first **standardized**, and then the model predictions are combined using **LogisticRegressionCV** with `penalty='l2'` and `tol=1e-08`. The "stacking\_regressor" works similarly, stacking together the "gradient\_boosting\_regressor" and "random\_forest\_regressor" models and a `glmnet.ElasticNet(alpha=0,n_splits=4,max_iter=10000,tol=1e-5)` combining them using **NonNegativeLinearRegression**. The estimators that are being stacked have the same names as the associated pre-defined models, and the meta-estimator steps are named "meta-estimator". Note that although default parameters are provided for multilayer perceptron models, it is highly recommended that multilayer perceptrons be run using hyperband.

## Hyperparameter Tuning

You can tune hyperparameters using one of two methods: grid search or hyperband. CivisML will perform grid search if you pass a list of hyperparameters to the `cross_validation_parameters` parameter, where list elements are hyperparameter names, and the values are vectors of hyperparameter values to grid search over. You can run hyperparameter optimization in parallel by setting the `n_jobs` parameter to however many jobs you would like to run in parallel. By default, `n_jobs` is dynamically calculated based on the resources available on your cluster, such that a modeling job will never take up more than 90

**Hyperband** is an efficient approach to hyperparameter optimization, and recommended over grid search where possible. CivisML will perform hyperband optimization if you pass the string "hyperband" to `cross_validation_parameters`. Hyperband is currently only supported for the following models: "gradient\_boosting\_classifier", "random\_forest\_classifier", "extra\_trees\_classifier", "multilayer\_perceptron\_classifier", "stacking\_classifier", "gradient\_boosting\_regressor", "random\_forest\_regressor", "extra\_trees\_regressor", "multilayer\_perceptron\_regressor", and "stacking\_regressor".

Hyperband cannot be used to tune GLMs. For this reason, preset GLMs do not have a hyperband option. Similarly, when `cross_validation_parameters='hyperband'` and the model is `stacking_classifier` or `stacking_regressor`, only the GBT and random forest steps of the stacker are tuned using hyperband. For the specific distributions used in the predefined hyperband models, see [the detailed table in the Python client documentation](#).

## Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

```
data.frame civis_ml(x = df, ...)
```

```
local csv file civis_ml(x = "path/to/data.csv", ...)
```

```
file in Civis Platform civis_ml(x = civis_file(1234))
```

```
table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table", database_name
= "database"))
```

## Out of sample scores

Model outputs will always contain out-of-sample (or out of fold) scores, which are accessible through [fetch\\_oos\\_scores](#). These may be stored in a Civis table on Redshift using the `oos_scores`, `oos_scores_db`, and `oos_scores_if_exists` parameters.

## Predictions

A fitted model can be used to make predictions for data residing in any of the sources above and a [civis\\_file\\_manifest](#). Similar to `civis_ml`, use the data source helpers as the `newdata` argument to `predict.civis_ml`.

A manifest file is a JSON file which specifies the location of many shards of the data to be used for prediction. A manifest file is the output of a Civis export job with `force_multifile = TRUE` set, e.g. from [civis\\_to\\_multifile\\_csv](#). Large civis tables (provided using `table_name`) will automatically be exported to manifest files.

Prediction outputs will always be stored as gzipped CSVs in one or more civis files. Provide an `output_table` (and optionally an `output_db`, if it's different from `database_name`) to copy these predictions into a table on Redshift.

## See Also

[civis\\_file](#), [civis\\_table](#), and [civis\\_file\\_manifest](#) for specifying data sources.

[get\\_metric](#) to access model validation metrics.

[fetch\\_logs](#) for retrieving logs for a (failed) model build, [fetch\\_oos\\_scores](#) for retrieving the out of sample (fold) scores for each training observation, and [fetch\\_predictions](#) for retrieving the predictions from a prediction job.

## Examples

```
## Not run:
# From a data frame:
m <- civis_ml(df, model_type = "sparse_logistic",
             dependent_variable = "Species")

# From a table:
m <- civis_ml(civis_table("schema.table", "database_name"),
             model_type = "sparse_logistic", dependent_variable = "Species",
             oos_scores_table = "schema.scores_table",
             oos_scores_if_exists = "drop")

# From a local file:
m <- civis_ml("path/to/file.csv", model_type = "sparse_logistic",
             dependent_variable = "Species")

# From a Civis file:
file_id <- write_civis_file("path/to/file.csv", name = "file.csv")
m <- civis_ml(civis_file(file_id), model_type = "sparse_logistic",
             dependent_variable = "Species")

pred_job <- predict(m, newdata = df)
```

```

pred_job <- predict(m, civis_table("schema.table", "database_name"),
                   output_table = "schema.scores_table")
pred_job <- predict(m, civis_file(file_id),
                   output_table = "schema.scores_table")

m <- civis_ml_fetch_existing(model_id = m$job$id, m$run$id)
logs <- fetch_logs(m)
yhat <- fetch_oos_scores(m)
yhat <- fetch_predictions(pred_job)

## End(Not run)

```

---

CIVIS\_ML\_CLASSIFIERS *List of classification models.*

---

### Description

List of classification models.

### Usage

CIVIS\_ML\_CLASSIFIERS

### Format

An object of class character of length 6.

---

civis\_ml\_extra\_trees\_classifier  
*CivisML Extra Trees Classifier*

---

### Description

CivisML Extra Trees Classifier

### Usage

```

civis_ml_extra_trees_classifier(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  n_estimators = 500,
  criterion = c("gini", "entropy"),
  max_depth = NULL,
  min_samples_split = 2,

```

```

min_samples_leaf = 1,
min_weight_fraction_leaf = 0,
max_features = "sqrt",
max_leaf_nodes = NULL,
min_impurity_split = 1e-07,
bootstrap = FALSE,
random_state = 42,
class_weight = NULL,
fit_params = NULL,
cross_validation_parameters = NULL,
calibration = NULL,
oos_scores_table = NULL,
oos_scores_db = NULL,
oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
model_name = NULL,
cpu_requested = NULL,
memory_requested = NULL,
disk_requested = NULL,
notifications = NULL,
polling_interval = NULL,
verbose = FALSE,
civismL_version = "prod"
)

```

## Arguments

x	See the Data Sources section below.
dependent_variable	The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.
primary_key	Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In <code>predict.civis_ml</code> , the <code>primary_key</code> of the training task is used by default <code>primary_key = NA</code> . Use <code>primary_key = NULL</code> to explicitly indicate the data have no <code>primary_key</code> .
excluded_columns	Optional, a vector of columns which will be considered ineligible to be independent variables.
n_estimators	The number of boosting stages to perform. Gradient boosting is fairly robust to over-fitting, so a large number usually results in better predictive performance.
criterion	The function to measure the quality of a split. Supported criteria are <code>gini</code> for the Gini impurity and <code>entropy</code> for the information gain.
max_depth	Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.
min_samples_split	The minimum number of samples required to split an internal node. If an integer, then consider <code>min_samples_split</code> as the minimum number. If a float,

then `min_samples_split` is a percentage and `ceiling(min_samples_split * n_samples)` are the minimum number of samples for each split.

`min_samples_leaf` The minimum number of samples required to be in a leaf node. If an integer, then consider `min_samples_leaf` as the minimum number. If a float, the `min_samples_leaf` is a percentage and `ceiling(min_samples_leaf * n_samples)` are the minimum number of samples for each leaf node.

`min_weight_fraction_leaf` The minimum weighted fraction of the sum total of weights required to be at a leaf node.

`max_features` The number of features to consider when looking for the best split.  
**integer** consider `max_features` at each split.  
**float** then `max_features` is a percentage and `max_features * n_features` are considered at each split.  
**auto** then `max_features = sqrt(n_features)`  
**sqrt** then `max_features = sqrt(n_features)`  
**log2** then `max_features = log2(n_features)`  
**NULL** then `max_features = n_features`

`max_leaf_nodes` Grow trees with `max_leaf_nodes` in best-first fashion. Best nodes are defined as relative reduction to impurity. If `max_leaf_nodes = NULL` then unlimited number of leaf nodes.

`min_impurity_split` Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.

`bootstrap` Whether bootstrap samples are used when building trees.

`random_state` The seed of the random number generator.

`class_weight` A list with `class_label = value` pairs, or `balanced`. When `class_weight = "balanced"`, the class weights will be inversely proportional to the class frequencies in the input data as:

$$\frac{n_{samples}}{n_{classes} * table(y)}$$

Note, the class weights are multiplied with `sample_weight` (passed via `fit_params`) if `sample_weight` is specified.

`fit_params` Optional, a mapping from parameter names in the model's fit method to the column names which hold the data, e.g. `list(sample_weight = 'survey_weight_column')`.

`cross_validation_parameters` Optional, parameter grid for learner parameters, e.g. `list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3))` or "hyperband" for supported models.

`calibration` Optional, if not `NULL`, calibrate output probabilities with the selected method, `sigmoid`, or `isotonic`. Valid only with classification models.

`oos_scores_table` Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

oos_scores_db	Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.
oos_scores_if_exists	Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".
model_name	Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.
cpu_requested	Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.
memory_requested	Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.
disk_requested	Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.
notifications	Optional, model status notifications. See <a href="#">scripts_post_custom</a> for further documentation about email and URL notification.
polling_interval	Check for job completion every this number of seconds.
verbose	Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.
civisml_version	Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

## Value

A `civis_ml` object, a list containing the following elements:

job	job metadata from <a href="#">scripts_get_custom</a> .
run	run metadata from <a href="#">scripts_get_custom_runs</a> .
outputs	CivisML metadata from <a href="#">scripts_list_custom_runs_outputs</a> containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.
metrics	Parsed CivisML output from <code>metrics.json</code> containing metadata from validation. A list containing the following elements: <ul style="list-style-type: none"> <li>run list, metadata about the run.</li> <li>data list, metadata about the training data.</li> <li>model list, the fitted scikit-learn model with CV results.</li> <li>metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).</li> <li>warnings list.</li> <li>data_platform list, training data location.</li> </ul>
model_info	Parsed CivisML output from <code>model_info.json</code> containing metadata from training. A list containing the following elements: <ul style="list-style-type: none"> <li>run list, metadata about the run.</li> </ul>

- data list, metadata about the training data.
- model list, the fitted scikit-learn model.
- metrics empty list.
- warnings list.
- data\_platform list, training data location.

## Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

```
data.frame civis_ml(x = df, ...)
```

```
local csv file civis_ml(x = "path/to/data.csv", ...)
```

```
file in Civis Platform civis_ml(x = civis_file(1234))
```

```
table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table", database_name
= "database"))
```

## Examples

```
## Not run:
df <- iris
names(df) <- gsub("\\.", "_", names(df))

m <- civis_ml_extra_trees_classifier(df,
  dependent_variable = "Species",
  n_estimators = 100,
  max_depth = 5,
  max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
  n_estimators = c(100, 200, 500),
  max_depth = c(2, 3))

m <- civis_ml_extra_trees_classifier(df,
  dependent_variable = "Species",
  max_features = NULL,
  cross_validation_parameters = cv_params)

pred_info <- predict(m, civis_table("schema.table", "my_database"),
  output_table = "schema.scores_table")

## End(Not run)
```



---

```
civis_ml_extra_trees_regressor
      CivisML Extra Trees Regressor
```

---

**Description**

CivisML Extra Trees Regressor

**Usage**

```
civis_ml_extra_trees_regressor(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  n_estimators = 500,
  criterion = c("mse", "mae"),
  max_depth = NULL,
  min_samples_split = 2,
  min_samples_leaf = 1,
  min_weight_fraction_leaf = 0,
  max_features = "sqrt",
  max_leaf_nodes = NULL,
  min_impurity_split = 1e-07,
  bootstrap = FALSE,
  random_state = 42,
  fit_params = NULL,
  cross_validation_parameters = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  disk_requested = NULL,
  notifications = NULL,
  polling_interval = NULL,
  verbose = FALSE,
  civismml_version = "prod"
)
```

**Arguments**

`x` See the Data Sources section below.

`dependent_variable` The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.

primary_key	Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In <code>predict.civis_ml</code> , the primary_key of the training task is used by default <code>primary_key = NA</code> . Use <code>primary_key = NULL</code> to explicitly indicate the data have no primary_key.
excluded_columns	Optional, a vector of columns which will be considered ineligible to be independent variables.
n_estimators	The number of boosting stages to perform. Gradient boosting is fairly robust to over-fitting, so a large number usually results in better predictive performance.
criterion	The function used to measure the quality of a split. Supported criteria are <code>mse</code> for the mean squared error, and <code>mae</code> for the mean absolute error.
max_depth	Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.
min_samples_split	The minimum number of samples required to split an internal node. If an integer, then consider <code>min_samples_split</code> as the minimum number. If a float, then <code>min_samples_split</code> is a percentage and <code>ceiling(min_samples_split * n_samples)</code> are the minimum number of samples for each split.
min_samples_leaf	The minimum number of samples required to be in a leaf node. If an integer, then consider <code>min_samples_leaf</code> as the minimum number. If a float, the <code>min_samples_leaf</code> is a percentage and <code>ceiling(min_samples_leaf * n_samples)</code> are the minimum number of samples for each leaf node.
min_weight_fraction_leaf	The minimum weighted fraction of the sum total of weights required to be at a leaf node.
max_features	The number of features to consider when looking for the best split. <b>integer</b> consider <code>max_features</code> at each split. <b>float</b> then <code>max_features</code> is a percentage and <code>max_features * n_features</code> are considered at each split. <b>auto</b> then <code>max_features = sqrt(n_features)</code> <b>sqrt</b> then <code>max_features = sqrt(n_features)</code> <b>log2</b> then <code>max_features = log2(n_features)</code> <b>NULL</b> then <code>max_features = n_features</code>
max_leaf_nodes	Grow trees with <code>max_leaf_nodes</code> in best-first fashion. Best nodes are defined as relative reduction to impurity. If <code>max_leaf_nodes = NULL</code> then unlimited number of leaf nodes.
min_impurity_split	Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.
bootstrap	Whether bootstrap samples are used when building trees.
random_state	The seed of the random number generator.
fit_params	Optional, a mapping from parameter names in the model's fit method to the column names which hold the data, e.g. <code>list(sample_weight = 'survey_weight_column')</code> .

cross_validation_parameters	Optional, parameter grid for learner parameters, e.g. <code>list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3))</code> or "hyperband" for supported models.
oos_scores_table	Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".
oos_scores_db	Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.
oos_scores_if_exists	Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".
model_name	Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.
cpu_requested	Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.
memory_requested	Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.
disk_requested	Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.
notifications	Optional, model status notifications. See <a href="#">scripts_post_custom</a> for further documentation about email and URL notification.
polling_interval	Check for job completion every this number of seconds.
verbose	Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.
civisml_version	Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

## Value

A `civis_ml` object, a list containing the following elements:

job	job metadata from <a href="#">scripts_get_custom</a> .
run	run metadata from <a href="#">scripts_get_custom_runs</a> .
outputs	CivisML metadata from <a href="#">scripts_list_custom_runs_outputs</a> containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.
metrics	Parsed CivisML output from <code>metrics.json</code> containing metadata from validation. A list containing the following elements: <ul style="list-style-type: none"> <li>run list, metadata about the run.</li> <li>data list, metadata about the training data.</li> <li>model list, the fitted scikit-learn model with CV results.</li> </ul>

- metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
  - warnings list.
  - data\_platform list, training data location.
- model\_info      Parsed CivisML output from model\_info.json containing metadata from training. A list containing the following elements:
- run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model.
  - metrics empty list.
  - warnings list.
  - data\_platform list, training data location.

### Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

```
data.frame civis_ml(x = df, ...)
```

```
local csv file civis_ml(x = "path/to/data.csv", ...)
```

```
file in Civis Platform civis_ml(x = civis_file(1234))
```

```
table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))
```

### Examples

```
## Not run:
data(ChickWeight)

m <- civis_ml_extra_trees_regressor(ChickWeight,
  dependent_variable = "weight",
  n_estimators = 100,
  max_depth = 5,
  max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
  n_estimators = c(100, 200, 500),
  max_depth = c(2, 3))

m <- civis_ml_extra_trees_regressor(ChickWeight,
  dependent_variable = "weight",
  max_features = NULL,
  cross_validation_parameters = cv_params)

pred_info <- predict(m, civis_table("schema.table", "my_database"),
```

```

        output_table = "schema.scores_table")

## End(Not run)

```

---

```

civis_ml_gradient_boosting_classifier
      CivisML Gradient Boosting Classifier

```

---

## Description

CivisML Gradient Boosting Classifier

## Usage

```

civis_ml_gradient_boosting_classifier(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  loss = c("deviance", "exponential"),
  learning_rate = 0.1,
  n_estimators = 500,
  subsample = 1,
  criterion = c("friedman_mse", "mse", "mae"),
  min_samples_split = 2,
  min_samples_leaf = 1,
  min_weight_fraction_leaf = 0,
  max_depth = 2,
  min_impurity_split = 1e-07,
  random_state = 42,
  max_features = "sqrt",
  max_leaf_nodes = NULL,
  presort = c("auto", TRUE, FALSE),
  fit_params = NULL,
  cross_validation_parameters = NULL,
  calibration = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  disk_requested = NULL,
  notifications = NULL,
  polling_interval = NULL,
  verbose = FALSE,
  civismml_version = "prod"
)

```

**Arguments**

x	See the Data Sources section below.
dependent_variable	The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.
primary_key	Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In <code>predict.civis_ml</code> , the <code>primary_key</code> of the training task is used by default <code>primary_key = NA</code> . Use <code>primary_key = NULL</code> to explicitly indicate the data have no <code>primary_key</code> .
excluded_columns	Optional, a vector of columns which will be considered ineligible to be independent variables.
loss	The loss function to be optimized. <code>deviance</code> refers to deviance (logistic regression) for classification with probabilistic outputs. For exponential, gradient boosting recovers the AdaBoost algorithm.
learning_rate	The learning rate shrinks the contribution of each tree by <code>learning_rate</code> . There is a trade-off between <code>learning_rate</code> and <code>n_estimators</code> .
n_estimators	The number of boosting stages to perform. Gradient boosting is fairly robust to over-fitting, so a large number usually results in better predictive performance.
subsample	The fraction of samples to be used for fitting individual base learners. If smaller than 1.0, this results in Stochastic Gradient Boosting. <code>subsample</code> interacts with the parameter <code>n_estimators</code> . Choosing <code>subsample &lt; 1.0</code> leads to a reduction of variance and an increase in bias.
criterion	The function to measure the quality of a split. The default value <code>criterion = "friedman_mse"</code> is generally the best as it can provide a better approximation in some cases.
min_samples_split	The minimum number of samples required to split an internal node. If an integer, then consider <code>min_samples_split</code> as the minimum number. If a float, then <code>min_samples_split</code> is a percentage and <code>ceiling(min_samples_split * n_samples)</code> are the minimum number of samples for each split.
min_samples_leaf	The minimum number of samples required to be in a leaf node. If an integer, then consider <code>min_samples_leaf</code> as the minimum number. If a float, the <code>min_samples_leaf</code> is a percentage and <code>ceiling(min_samples_leaf * n_samples)</code> are the minimum number of samples for each leaf node.
min_weight_fraction_leaf	The minimum weighted fraction of the sum total of weights required to be at a leaf node.
max_depth	Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.
min_impurity_split	Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.

random_state	The seed of the random number generator.
max_features	The number of features to consider when looking for the best split. <b>integer</b> consider max_features at each split. <b>float</b> then max_features is a percentage and max_features * n_features are considered at each split. <b>auto</b> then max_features = sqrt(n_features) <b>sqrt</b> then max_features = sqrt(n_features) <b>log2</b> then max_features = log2(n_features) <b>NULL</b> then max_features = n_features
max_leaf_nodes	Grow trees with max_leaf_nodes in best-first fashion. Best nodes are defined as relative reduction to impurity. If max_leaf_nodes = NULL then unlimited number of leaf nodes.
presort	Whether to presort the data to speed up the finding of best splits in fitting.
fit_params	Optional, a mapping from parameter names in the model's fit method to the column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').
cross_validation_parameters	Optional, parameter grid for learner parameters, e.g. list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3)) or "hyperband" for supported models.
calibration	Optional, if not NULL, calibrate output probabilities with the selected method, sigmoid, or isotonic. Valid only with classification models.
oos_scores_table	Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".
oos_scores_db	Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.
oos_scores_if_exists	Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".
model_name	Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.
cpu_requested	Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.
memory_requested	Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.
disk_requested	Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.
notifications	Optional, model status notifications. See <a href="#">scripts_post_custom</a> for further documentation about email and URL notification.
polling_interval	Check for job completion every this number of seconds.
verbose	Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

civisml\_version

Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

## Value

A `civis_ml` object, a list containing the following elements:

job	job metadata from <code>scripts_get_custom</code> .
run	run metadata from <code>scripts_get_custom_runs</code> .
outputs	CivisML metadata from <code>scripts_list_custom_runs_outputs</code> containing the locations of files produced by CivisML e.g. files, projects, metrics, <code>model_info</code> , logs, predictions, and estimators.
metrics	<p>Parsed CivisML output from <code>metrics.json</code> containing metadata from validation. A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• run list, metadata about the run.</li> <li>• data list, metadata about the training data.</li> <li>• model list, the fitted scikit-learn model with CV results.</li> <li>• metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).</li> <li>• warnings list.</li> <li>• data_platform list, training data location.</li> </ul>
model_info	<p>Parsed CivisML output from <code>model_info.json</code> containing metadata from training. A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• run list, metadata about the run.</li> <li>• data list, metadata about the training data.</li> <li>• model list, the fitted scikit-learn model.</li> <li>• metrics empty list.</li> <li>• warnings list.</li> <li>• data_platform list, training data location.</li> </ul>

## Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

```
data.frame civis_ml(x = df, ...)
```

```
local csv file civis_ml(x = "path/to/data.csv", ...)
```

```
file in Civis Platform civis_ml(x = civis_file(1234))
```

```
table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))
```



**Examples**

```
## Not run:
df <- iris
names(df) <- gsub("\\.", "_", names(df))

m <- civis_ml_gradient_boosting_classifier(df,
  dependent_variable = "Species",
  learning_rate = .01,
  n_estimators = 100,
  subsample = .5,
  max_depth = 5,
  max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
  n_estimators = c(100, 200, 500),
  learning_rate = c(.01, .1),
  max_depth = c(2, 3))

m <- civis_ml_gradient_boosting_classifier(df,
  dependent_variable = "Species",
  subsample = .5,
  max_features = NULL,
  cross_validation_parameters = cv_params)

pred_info <- predict(m, civis_table("schema.table", "my_database"),
  output_table = "schema.scores_table")

## End(Not run)
```

---

civis\_ml\_gradient\_boosting\_regressor

*CivisML Gradient Boosting Regressor*


---

**Description**

CivisML Gradient Boosting Regressor

**Usage**

```
civis_ml_gradient_boosting_regressor(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  loss = c("ls", "lad", "huber", "quantile"),
  learning_rate = 0.1,
  n_estimators = 500,
```

```

subsample = 1,
criterion = c("friedman_mse", "mse", "mae"),
min_samples_split = 2,
min_samples_leaf = 1,
min_weight_fraction_leaf = 0,
max_depth = 2,
min_impurity_split = 1e-07,
random_state = 42,
max_features = "sqrt",
alpha = 0.9,
max_leaf_nodes = NULL,
presort = c("auto", TRUE, FALSE),
fit_params = NULL,
cross_validation_parameters = NULL,
oos_scores_table = NULL,
oos_scores_db = NULL,
oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
model_name = NULL,
cpu_requested = NULL,
memory_requested = NULL,
disk_requested = NULL,
notifications = NULL,
polling_interval = NULL,
verbose = FALSE,
civismL_version = "prod"
)

```

## Arguments

x	See the Data Sources section below.
dependent_variable	The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.
primary_key	Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In <code>predict.civis_ml</code> , the <code>primary_key</code> of the training task is used by default <code>primary_key = NA</code> . Use <code>primary_key = NULL</code> to explicitly indicate the data have no <code>primary_key</code> .
excluded_columns	Optional, a vector of columns which will be considered ineligible to be independent variables.
loss	The loss function to be optimized. <code>ls</code> refers to least squares regression. <code>lad</code> (least absolute deviation) is a highly robust loss function solely based on order information of the input variables. <code>huber</code> is a combination of the two. <code>quantile</code> allows quantile regression (use <code>alpha</code> to specify the quantile).
learning_rate	The learning rate shrinks the contribution of each tree by <code>learning_rate</code> . There is a trade-off between <code>learning_rate</code> and <code>n_estimators</code> .

n_estimators	The number of boosting stages to perform. Gradient boosting is fairly robust to over-fitting, so a large number usually results in better predictive performance.
subsample	The fraction of samples to be used for fitting individual base learners. If smaller than 1.0, this results in Stochastic Gradient Boosting. <code>subsample</code> interacts with the parameter <code>n_estimators</code> . Choosing <code>subsample &lt; 1.0</code> leads to a reduction of variance and an increase in bias.
criterion	The function to measure the quality of a split. The default value <code>criterion = "friedman_mse"</code> is generally the best as it can provide a better approximation in some cases.
min_samples_split	The minimum number of samples required to split an internal node. If an integer, then consider <code>min_samples_split</code> as the minimum number. If a float, then <code>min_samples_split</code> is a percentage and <code>ceiling(min_samples_split * n_samples)</code> are the minimum number of samples for each split.
min_samples_leaf	The minimum number of samples required to be in a leaf node. If an integer, then consider <code>min_samples_leaf</code> as the minimum number. If a float, the <code>min_samples_leaf</code> is a percentage and <code>ceiling(min_samples_leaf * n_samples)</code> are the minimum number of samples for each leaf node.
min_weight_fraction_leaf	The minimum weighted fraction of the sum total of weights required to be at a leaf node.
max_depth	Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.
min_impurity_split	Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.
random_state	The seed of the random number generator.
max_features	The number of features to consider when looking for the best split. <b>integer</b> consider <code>max_features</code> at each split. <b>float</b> then <code>max_features</code> is a percentage and <code>max_features * n_features</code> are considered at each split. <b>auto</b> then <code>max_features = sqrt(n_features)</code> <b>sqrt</b> then <code>max_features = sqrt(n_features)</code> <b>log2</b> then <code>max_features = log2(n_features)</code> <b>NULL</b> then <code>max_features = n_features</code>
alpha	The alpha-quantile of the huber loss function and the quantile loss function. Ignored unless <code>loss = "huber"</code> or <code>loss = "quantile"</code>
max_leaf_nodes	Grow trees with <code>max_leaf_nodes</code> in best-first fashion. Best nodes are defined as relative reduction to impurity. If <code>max_leaf_nodes = NULL</code> then unlimited number of leaf nodes.
presort	Whether to presort the data to speed up the finding of best splits in fitting.
fit_params	Optional, a mapping from parameter names in the model's <code>fit</code> method to the column names which hold the data, e.g. <code>list(sample_weight = 'survey_weight_column')</code> .

cross_validation_parameters	Optional, parameter grid for learner parameters, e.g. <code>list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3))</code> or "hyperband" for supported models.
oos_scores_table	Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".
oos_scores_db	Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.
oos_scores_if_exists	Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".
model_name	Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.
cpu_requested	Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.
memory_requested	Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.
disk_requested	Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.
notifications	Optional, model status notifications. See <a href="#">scripts_post_custom</a> for further documentation about email and URL notification.
polling_interval	Check for job completion every this number of seconds.
verbose	Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.
civisml_version	Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

## Value

A `civis_ml` object, a list containing the following elements:

job	job metadata from <a href="#">scripts_get_custom</a> .
run	run metadata from <a href="#">scripts_get_custom_runs</a> .
outputs	CivisML metadata from <a href="#">scripts_list_custom_runs_outputs</a> containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.
metrics	Parsed CivisML output from <code>metrics.json</code> containing metadata from validation. A list containing the following elements: <ul style="list-style-type: none"> <li>run list, metadata about the run.</li> <li>data list, metadata about the training data.</li> <li>model list, the fitted scikit-learn model with CV results.</li> </ul>

- metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
  - warnings list.
  - data\_platform list, training data location.
- model\_info      Parsed CivisML output from model\_info.json containing metadata from training. A list containing the following elements:
- run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model.
  - metrics empty list.
  - warnings list.
  - data\_platform list, training data location.

## Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

```
data.frame civis_ml(x = df, ...)
```

```
local csv file civis_ml(x = "path/to/data.csv", ...)
```

```
file in Civis Platform civis_ml(x = civis_file(1234))
```

```
table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))
```

## Examples

```
## Not run:
data(ChickWeight)

m <- civis_ml_gradient_boosting_regressor(ChickWeight,
  dependent_variable = "weight",
  learning_rate = .01,
  n_estimators = 100,
  subsample = .5,
  max_depth = 5,
  max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
  n_estimators = c(100, 200, 500),
  learning_rate = c(.01, .1),
  max_depth = c(2, 3))

m <- civis_ml_gradient_boosting_regressor(ChickWeight,
  dependent_variable = "weight",
  subsample = .5,
```

```
max_features = NULL,
cross_validation_parameters = cv_params)

pred_info <- predict(m, civis_table("schema.table", "my_database"),
  output_table = "schema.scores_table")

## End(Not run)
```

---

civis\_ml\_random\_forest\_classifier  
*CivisML Random Forest Classifier*

---

## Description

CivisML Random Forest Classifier

## Usage

```
civis_ml_random_forest_classifier(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  n_estimators = 500,
  criterion = c("gini", "entropy"),
  max_depth = NULL,
  min_samples_split = 2,
  min_samples_leaf = 1,
  min_weight_fraction_leaf = 0,
  max_features = "sqrt",
  max_leaf_nodes = NULL,
  min_impurity_split = 1e-07,
  bootstrap = TRUE,
  random_state = 42,
  class_weight = NULL,
  fit_params = NULL,
  cross_validation_parameters = NULL,
  calibration = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  disk_requested = NULL,
  notifications = NULL,
  polling_interval = NULL,
```

```

    verbose = FALSE,
    civismL_version = "prod"
)

```

## Arguments

x	See the Data Sources section below.
dependent_variable	The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.
primary_key	Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In <code>predict.civis_ml</code> , the <code>primary_key</code> of the training task is used by default <code>primary_key = NA</code> . Use <code>primary_key = NULL</code> to explicitly indicate the data have no <code>primary_key</code> .
excluded_columns	Optional, a vector of columns which will be considered ineligible to be independent variables.
n_estimators	The number of boosting stages to perform. Gradient boosting is fairly robust to over-fitting, so a large number usually results in better predictive performance.
criterion	The function to measure the quality of a split. Supported criteria are <code>gini</code> for the Gini impurity and <code>entropy</code> for the information gain.
max_depth	Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.
min_samples_split	The minimum number of samples required to split an internal node. If an integer, then consider <code>min_samples_split</code> as the minimum number. If a float, then <code>min_samples_split</code> is a percentage and <code>ceiling(min_samples_split * n_samples)</code> are the minimum number of samples for each split.
min_samples_leaf	The minimum number of samples required to be in a leaf node. If an integer, then consider <code>min_samples_leaf</code> as the minimum number. If a float, the <code>min_samples_leaf</code> is a percentage and <code>ceiling(min_samples_leaf * n_samples)</code> are the minimum number of samples for each leaf node.
min_weight_fraction_leaf	The minimum weighted fraction of the sum total of weights required to be at a leaf node.
max_features	The number of features to consider when looking for the best split. <b>integer</b> consider <code>max_features</code> at each split. <b>float</b> then <code>max_features</code> is a percentage and <code>max_features * n_features</code> are considered at each split. <b>auto</b> then <code>max_features = sqrt(n_features)</code> <b>sqrt</b> then <code>max_features = sqrt(n_features)</code> <b>log2</b> then <code>max_features = log2(n_features)</code>

	<b>NULL</b> then <code>max_features = n_features</code>
<code>max_leaf_nodes</code>	Grow trees with <code>max_leaf_nodes</code> in best-first fashion. Best nodes are defined as relative reduction to impurity. If <code>max_leaf_nodes = NULL</code> then unlimited number of leaf nodes.
<code>min_impurity_split</code>	Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.
<code>bootstrap</code>	Whether bootstrap samples are used when building trees.
<code>random_state</code>	The seed of the random number generator.
<code>class_weight</code>	A list with <code>class_label = value</code> pairs, or <code>balanced</code> . When <code>class_weight = "balanced"</code> , the class weights will be inversely proportional to the class frequencies in the input data as: $\frac{n_{samples}}{n_{classes} * table(y)}$
	Note, the class weights are multiplied with <code>sample_weight</code> (passed via <code>fit_params</code> ) if <code>sample_weight</code> is specified.
<code>fit_params</code>	Optional, a mapping from parameter names in the model's fit method to the column names which hold the data, e.g. <code>list(sample_weight = 'survey_weight_column')</code> .
<code>cross_validation_parameters</code>	Optional, parameter grid for learner parameters, e.g. <code>list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3))</code> or "hyperband" for supported models.
<code>calibration</code>	Optional, if not <code>NULL</code> , calibrate output probabilities with the selected method, <code>sigmoid</code> , or <code>isotonic</code> . Valid only with classification models.
<code>oos_scores_table</code>	Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".
<code>oos_scores_db</code>	Optional, the name of the database where the <code>oos_scores_table</code> will be created. If not provided, this will default to <code>database_name</code> .
<code>oos_scores_if_exists</code>	Optional, action to take if <code>oos_scores_table</code> already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".
<code>model_name</code>	Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.
<code>cpu_requested</code>	Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.
<code>memory_requested</code>	Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.
<code>disk_requested</code>	Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.
<code>notifications</code>	Optional, model status notifications. See <a href="#">scripts_post_custom</a> for further documentation about email and URL notification.



polling_interval	Check for job completion every this number of seconds.
verbose	Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.
civisml_version	Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

### Value

A `civis_ml` object, a list containing the following elements:

job	job metadata from <code>scripts_get_custom</code> .
run	run metadata from <code>scripts_get_custom_runs</code> .
outputs	CivisML metadata from <code>scripts_list_custom_runs_outputs</code> containing the locations of files produced by CivisML e.g. files, projects, metrics, <code>model_info</code> , logs, predictions, and estimators.
metrics	Parsed CivisML output from <code>metrics.json</code> containing metadata from validation. A list containing the following elements: <ul style="list-style-type: none"> <li>• run list, metadata about the run.</li> <li>• data list, metadata about the training data.</li> <li>• model list, the fitted scikit-learn model with CV results.</li> <li>• metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).</li> <li>• warnings list.</li> <li>• <code>data_platform</code> list, training data location.</li> </ul>
model_info	Parsed CivisML output from <code>model_info.json</code> containing metadata from training. A list containing the following elements: <ul style="list-style-type: none"> <li>• run list, metadata about the run.</li> <li>• data list, metadata about the training data.</li> <li>• model list, the fitted scikit-learn model.</li> <li>• metrics empty list.</li> <li>• warnings list.</li> <li>• <code>data_platform</code> list, training data location.</li> </ul>

### Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

```
data.frame civis_ml(x = df, ...)
```

```
local csv file civis_ml(x = "path/to/data.csv", ...)
```

```
file in Civis Platform civis_ml(x = civis_file(1234))
```

```
table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))
```

## Examples

```
## Not run:
df <- iris
names(df) <- gsub("\\.", "_", names(df))

m <- civis_ml_random_forest_classifier(df,
  dependent_variable = "Species",
  n_estimators = 100,
  max_depth = 5,
  max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
  n_estimators = c(100, 200, 500),
  max_depth = c(2, 3))

m <- civis_ml_random_forest_classifier(df,
  dependent_variable = "Species",
  max_features = NULL,
  cross_validation_parameters = cv_params)

pred_info <- predict(m, civis_table("schema.table", "my_database"),
  output_table = "schema.scores_table")

## End(Not run)
```

---

civis\_ml\_random\_forest\_regressor  
*CivisML Random Forest Regressor*

---

## Description

CivisML Random Forest Regressor

## Usage

```
civis_ml_random_forest_regressor(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  n_estimators = 500,
  criterion = c("mse", "mae"),
  max_depth = NULL,
  min_samples_split = 2,
  min_samples_leaf = 1,
  min_weight_fraction_leaf = 0,
```

```

max_features = "sqrt",
max_leaf_nodes = NULL,
min_impurity_split = 1e-07,
bootstrap = TRUE,
random_state = 42,
fit_params = NULL,
cross_validation_parameters = NULL,
oos_scores_table = NULL,
oos_scores_db = NULL,
oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
model_name = NULL,
cpu_requested = NULL,
memory_requested = NULL,
disk_requested = NULL,
notifications = NULL,
polling_interval = NULL,
verbose = FALSE,
civismL_version = "prod"
)

```

## Arguments

x	See the Data Sources section below.
dependent_variable	The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.
primary_key	Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In <code>predict.civis_ml</code> , the <code>primary_key</code> of the training task is used by default <code>primary_key = NA</code> . Use <code>primary_key = NULL</code> to explicitly indicate the data have no <code>primary_key</code> .
excluded_columns	Optional, a vector of columns which will be considered ineligible to be independent variables.
n_estimators	The number of boosting stages to perform. Gradient boosting is fairly robust to over-fitting, so a large number usually results in better predictive performance.
criterion	The function used to measure the quality of a split. Supported criteria are <code>mse</code> for the mean squared error, and <code>mae</code> for the mean absolute error.
max_depth	Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.
min_samples_split	The minimum number of samples required to split an internal node. If an integer, then consider <code>min_samples_split</code> as the minimum number. If a float, then <code>min_samples_split</code> is a percentage and <code>ceiling(min_samples_split * n_samples)</code> are the minimum number of samples for each split.

min_samples_leaf	The minimum number of samples required to be in a leaf node. If an integer, then consider min_samples_leaf as the minimum number. If a float, the min_samples_leaf is a percentage and $\text{ceiling}(\text{min\_samples\_leaf} * \text{n\_samples})$ are the minimum number of samples for each leaf node.
min_weight_fraction_leaf	The minimum weighted fraction of the sum total of weights required to be at a leaf node.
max_features	The number of features to consider when looking for the best split. <b>integer</b> consider max_features at each split. <b>float</b> then max_features is a percentage and $\text{max\_features} * \text{n\_features}$ are considered at each split. <b>auto</b> then $\text{max\_features} = \text{sqrt}(\text{n\_features})$ <b>sqrt</b> then $\text{max\_features} = \text{sqrt}(\text{n\_features})$ <b>log2</b> then $\text{max\_features} = \text{log2}(\text{n\_features})$ <b>NULL</b> then $\text{max\_features} = \text{n\_features}$
max_leaf_nodes	Grow trees with max_leaf_nodes in best-first fashion. Best nodes are defined as relative reduction to impurity. If max_leaf_nodes = NULL then unlimited number of leaf nodes.
min_impurity_split	Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.
bootstrap	Whether bootstrap samples are used when building trees.
random_state	The seed of the random number generator.
fit_params	Optional, a mapping from parameter names in the model's fit method to the column names which hold the data, e.g. <code>list(sample_weight = 'survey_weight_column')</code> .
cross_validation_parameters	Optional, parameter grid for learner parameters, e.g. <code>list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3))</code> or "hyperband" for supported models.
oos_scores_table	Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".
oos_scores_db	Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.
oos_scores_if_exists	Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".
model_name	Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.
cpu_requested	Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.
memory_requested	Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.

disk_requested	Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.
notifications	Optional, model status notifications. See <a href="#">scripts_post_custom</a> for further documentation about email and URL notification.
polling_interval	Check for job completion every this number of seconds.
verbose	Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.
civisml_version	Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

### Value

A `civis_ml` object, a list containing the following elements:

job	job metadata from <a href="#">scripts_get_custom</a> .
run	run metadata from <a href="#">scripts_get_custom_runs</a> .
outputs	CivisML metadata from <a href="#">scripts_list_custom_runs_outputs</a> containing the locations of files produced by CivisML e.g. files, projects, metrics, <code>model_info</code> , logs, predictions, and estimators.
metrics	Parsed CivisML output from <code>metrics.json</code> containing metadata from validation. A list containing the following elements: <ul style="list-style-type: none"> <li>• run list, metadata about the run.</li> <li>• data list, metadata about the training data.</li> <li>• model list, the fitted scikit-learn model with CV results.</li> <li>• metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).</li> <li>• warnings list.</li> <li>• <code>data_platform</code> list, training data location.</li> </ul>
model_info	Parsed CivisML output from <code>model_info.json</code> containing metadata from training. A list containing the following elements: <ul style="list-style-type: none"> <li>• run list, metadata about the run.</li> <li>• data list, metadata about the training data.</li> <li>• model list, the fitted scikit-learn model.</li> <li>• metrics empty list.</li> <li>• warnings list.</li> <li>• <code>data_platform</code> list, training data location.</li> </ul>

### Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

```
data.frame civis_ml(x = df, ...)
local csv file civis_ml(x = "path/to/data.csv", ...)
file in Civis Platform civis_ml(x = civis_file(1234))
table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table", database_name
  = "database"))
```

### Examples

```
## Not run:
data(ChickWeight)

m <- civis_ml_random_forest_regressor(ChickWeight,
  dependent_variable = "weight",
  n_estimators = 100,
  max_depth = 5,
  max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
  n_estimators = c(100, 200, 500),
  max_depth = c(2, 3))

m <- civis_ml_random_forest_regressor(ChickWeight,
  dependent_variable = "weight",
  max_features = NULL,
  cross_validation_parameters = cv_params)

pred_info <- predict(m, civis_table("schema.table", "my_database"),
  output_table = "schema.scores_table")

## End(Not run)
```

---

CIVIS\_ML\_REGRESSORS *List of civis\_ml regression models.*

---

### Description

List of civis\_ml regression models.

### Usage

```
CIVIS_ML_REGRESSORS
```

### Format

An object of class character of length 7.

---

civis\_ml\_sparse\_linear\_regressor  
*CivisML Sparse Linear Regression*

---

## Description

CivisML Sparse Linear Regression

## Usage

```
civis_ml_sparse_linear_regressor(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  fit_intercept = TRUE,
  normalize = FALSE,
  fit_params = NULL,
  cross_validation_parameters = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  disk_requested = NULL,
  notifications = NULL,
  polling_interval = NULL,
  verbose = FALSE,
  civismml_version = "prod"
)
```

## Arguments

x	See the Data Sources section below.
dependent_variable	The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.
primary_key	Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In <code>predict.civis_ml</code> , the <code>primary_key</code> of the training task is used by default <code>primary_key = NA</code> . Use <code>primary_key = NULL</code> to explicitly indicate the data have no <code>primary_key</code> .
excluded_columns	Optional, a vector of columns which will be considered ineligible to be independent variables.

<code>fit_intercept</code>	Should an intercept term be included in the model. If FALSE, no intercept will be included, in this case the data are expected to already be centered.
<code>normalize</code>	If TRUE, the regressors will be normalized before fitting the model. <code>normalize</code> is ignored when <code>fit_intercept = FALSE</code> .
<code>fit_params</code>	Optional, a mapping from parameter names in the model's fit method to the column names which hold the data, e.g. <code>list(sample_weight = 'survey_weight_column')</code> .
<code>cross_validation_parameters</code>	Optional, parameter grid for learner parameters, e.g. <code>list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3))</code> or "hyperband" for supported models.
<code>oos_scores_table</code>	Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".
<code>oos_scores_db</code>	Optional, the name of the database where the <code>oos_scores_table</code> will be created. If not provided, this will default to <code>database_name</code> .
<code>oos_scores_if_exists</code>	Optional, action to take if <code>oos_scores_table</code> already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".
<code>model_name</code>	Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.
<code>cpu_requested</code>	Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.
<code>memory_requested</code>	Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.
<code>disk_requested</code>	Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.
<code>notifications</code>	Optional, model status notifications. See <a href="#">scripts_post_custom</a> for further documentation about email and URL notification.
<code>polling_interval</code>	Check for job completion every this number of seconds.
<code>verbose</code>	Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.
<code>civisml_version</code>	Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

## Value

A `civis_ml` object, a list containing the following elements:

<code>job</code>	job metadata from <a href="#">scripts_get_custom</a> .
<code>run</code>	run metadata from <a href="#">scripts_get_custom_runs</a> .
<code>outputs</code>	CivisML metadata from <a href="#">scripts_list_custom_runs_outputs</a> containing the locations of files produced by CivisML e.g. files, projects, metrics, <code>model_info</code> , logs, predictions, and estimators.



metrics	<p>Parsed CivisML output from <code>metrics.json</code> containing metadata from validation. A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• run list, metadata about the run.</li> <li>• data list, metadata about the training data.</li> <li>• model list, the fitted scikit-learn model with CV results.</li> <li>• metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).</li> <li>• warnings list.</li> <li>• data_platform list, training data location.</li> </ul>
model_info	<p>Parsed CivisML output from <code>model_info.json</code> containing metadata from training. A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• run list, metadata about the run.</li> <li>• data list, metadata about the training data.</li> <li>• model list, the fitted scikit-learn model.</li> <li>• metrics empty list.</li> <li>• warnings list.</li> <li>• data_platform list, training data location.</li> </ul>

## Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

```
data.frame civis_ml(x = df, ...)
```

```
local csv file civis_ml(x = "path/to/data.csv", ...)
```

```
file in Civis Platform civis_ml(x = civis_file(1234))
```

```
table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))
```

## Examples

```
## Not run:
data(ChickWeight)
m <- civis_ml_sparse_linear_regressor(ChickWeight, dependent_variable = "weight")
yhat <- fetch_oos_scores(m)

# make a prediction job, storing in a redshift table
pred_info <- predict(m, newdata = civis_table("schema.table", "my_database"),
  output_table = "schema.scores_table")

## End(Not run)
```

---

`civis_ml_sparse_logistic`*CivisML Sparse Logistic*

---

**Description**

CivisML Sparse Logistic

**Usage**

```
civis_ml_sparse_logistic(  
  x,  
  dependent_variable,  
  primary_key = NULL,  
  excluded_columns = NULL,  
  penalty = c("l2", "l1"),  
  dual = FALSE,  
  tol = 1e-08,  
  C = 499999950,  
  fit_intercept = TRUE,  
  intercept_scaling = 1,  
  class_weight = NULL,  
  random_state = 42,  
  solver = c("liblinear", "newton-cg", "lbfgs", "sag"),  
  max_iter = 100,  
  multi_class = c("ovr", "multinomial"),  
  fit_params = NULL,  
  cross_validation_parameters = NULL,  
  calibration = NULL,  
  oos_scores_table = NULL,  
  oos_scores_db = NULL,  
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),  
  model_name = NULL,  
  cpu_requested = NULL,  
  memory_requested = NULL,  
  disk_requested = NULL,  
  notifications = NULL,  
  polling_interval = NULL,  
  verbose = FALSE,  
  civismml_version = "prod"  
)
```

**Arguments**

x See the Data Sources section below.

dependent_variable	The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.
primary_key	Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In <code>predict.civis_ml</code> , the <code>primary_key</code> of the training task is used by default <code>primary_key = NA</code> . Use <code>primary_key = NULL</code> to explicitly indicate the data have no <code>primary_key</code> .
excluded_columns	Optional, a vector of columns which will be considered ineligible to be independent variables.
penalty	Used to specify the norm used in the penalization. The <code>newton-cg</code> , <code>sag</code> , and <code>lbfgs</code> solvers support only l2 penalties.
dual	Dual or primal formulation. Dual formulation is only implemented for l2 penalty with the <code>liblinear</code> solver. <code>dual = FALSE</code> should be preferred when <code>n_samples &gt; n_features</code> .
tol	Tolerance for stopping criteria.
C	Inverse of regularization strength, must be a positive float. Smaller values specify stronger regularization.
fit_intercept	Should a constant or intercept term be included in the model.
intercept_scaling	Useful only when the <code>solver = "liblinear"</code> and <code>fit_intercept = TRUE</code> . In this case, a constant term with the value <code>intercept_scaling</code> is added to the design matrix.
class_weight	A list with <code>class_label = value</code> pairs, or <code>balanced</code> . When <code>class_weight = "balanced"</code> , the class weights will be inversely proportional to the class frequencies in the input data as: <div style="text-align: center; margin: 10px 0;"> <math display="block">\frac{n_{samples}}{n_{classes} * table(y)}</math> </div> <p>Note, the class weights are multiplied with <code>sample_weight</code> (passed via <code>fit_params</code>) if <code>sample_weight</code> is specified.</p>
random_state	The seed of the random number generator to use when shuffling the data. Used only in <code>solver = "sag"</code> and <code>solver = "liblinear"</code> .
solver	Algorithm to use in the optimization problem. For small data <code>liblinear</code> is a good choice. <code>sag</code> is faster for larger problems. For multiclass problems, only <code>newton-cg</code> , <code>sag</code> , and <code>lbfgs</code> handle multinomial loss. <code>liblinear</code> is limited to one-versus-rest schemes. <code>newton-cg</code> , <code>lbfgs</code> , and <code>sag</code> only handle the l2 penalty. <p>Note that <code>sag</code> fast convergence is only guaranteed on features with approximately the same scale.</p>
max_iter	The maximum number of iterations taken for the solvers to converge. Useful for the <code>newton-cg</code> , <code>sag</code> , and <code>lbfgs</code> solvers.

multi_class	The scheme for multi-class problems. When ovr, then a binary problem is fit for each label. When multinomial, a single model is fit minimizing the multinomial loss. Note, multinomial only works with the newton-cg, sag, and lbfgs solvers.
fit_params	Optional, a mapping from parameter names in the model's fit method to the column names which hold the data, e.g. <code>list(sample_weight = 'survey_weight_column')</code> .
cross_validation_parameters	Optional, parameter grid for learner parameters, e.g. <code>list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3))</code> or "hyperband" for supported models.
calibration	Optional, if not NULL, calibrate output probabilities with the selected method, sigmoid, or isotonic. Valid only with classification models.
oos_scores_table	Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".
oos_scores_db	Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.
oos_scores_if_exists	Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".
model_name	Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.
cpu_requested	Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.
memory_requested	Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.
disk_requested	Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.
notifications	Optional, model status notifications. See <a href="#">scripts_post_custom</a> for further documentation about email and URL notification.
polling_interval	Check for job completion every this number of seconds.
verbose	Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.
civismml_version	Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

### Value

A `civis_ml` object, a list containing the following elements:

job	job metadata from <a href="#">scripts_get_custom</a> .
run	run metadata from <a href="#">scripts_get_custom_runs</a> .

outputs	CivisML metadata from <code>scripts_list_custom_runs_outputs</code> containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.
metrics	<p>Parsed CivisML output from <code>metrics.json</code> containing metadata from validation. A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• run list, metadata about the run.</li> <li>• data list, metadata about the training data.</li> <li>• model list, the fitted scikit-learn model with CV results.</li> <li>• metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).</li> <li>• warnings list.</li> <li>• data_platform list, training data location.</li> </ul>
model_info	<p>Parsed CivisML output from <code>model_info.json</code> containing metadata from training. A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• run list, metadata about the run.</li> <li>• data list, metadata about the training data.</li> <li>• model list, the fitted scikit-learn model.</li> <li>• metrics empty list.</li> <li>• warnings list.</li> <li>• data_platform list, training data location.</li> </ul>

## Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

```
data.frame civis_ml(x = df, ...)
```

```
local csv file civis_ml(x = "path/to/data.csv", ...)
```

```
file in Civis Platform civis_ml(x = civis_file(1234))
```

```
table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))
```

## Examples

```
## Not run:

df <- iris
names(df) <- gsub("\\.", "_", names(df))

m <- civis_ml_sparse_logistic(df, "Species")
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(C = c(.01, 1, 10, 100, 1000))
```

```

m <- civis_ml_sparse_logistic(df, "Species",
  cross_validation_parameters = cv_params)

# make a prediction job, storing in a redshift table
pred_info <- predict(m, newdata = civis_table("schema.table", "my_database"),
  output_table = "schema.scores_table")

## End(Not run)

```

---

```

civis_ml_sparse_ridge_regressor
  CivisML Sparse Ridge Regression

```

---

## Description

CivisML Sparse Ridge Regression

## Usage

```

civis_ml_sparse_ridge_regressor(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  alpha = 1,
  fit_intercept = TRUE,
  normalize = FALSE,
  max_iter = NULL,
  tol = 0.001,
  solver = c("auto", "svd", "cholesky", "lsqr", "sparse_cg", "sag"),
  random_state = 42,
  fit_params = NULL,
  cross_validation_parameters = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  disk_requested = NULL,
  notifications = NULL,
  polling_interval = NULL,
  verbose = FALSE,
  civismml_version = "prod"
)

```

**Arguments**

x	See the Data Sources section below.
dependent_variable	The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.
primary_key	Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In <code>predict.civis_ml</code> , the <code>primary_key</code> of the training task is used by default <code>primary_key = NA</code> . Use <code>primary_key = NULL</code> to explicitly indicate the data have no <code>primary_key</code> .
excluded_columns	Optional, a vector of columns which will be considered ineligible to be independent variables.
alpha	The regularization strength, must be a vector of floats of length <code>n_targets</code> or a single float. Larger values specify stronger regularization.
fit_intercept	Should an intercept term be included in the model. If <code>FALSE</code> , no intercept will be included, in this case the data are expected to already be centered.
normalize	If <code>TRUE</code> , the regressors will be normalized before fitting the model. <code>normalize</code> is ignored when <code>fit_intercept = FALSE</code> .
max_iter	Maximum number of iterations for conjugate gradient solver. For <code>sparse_cg</code> and <code>lsqr</code> solvers, the default value is predetermined. For the <code>sag</code> solver, the default value is 1000.
tol	Precision of the solution.
solver	Solver to use for the optimization problem. <b>auto</b> chooses the solver automatically based on the type of data. <b>svd</b> uses Singular Value Decomposition of X to compute the Ridge coefficients. More stable for singular matrices than <code>cholesky</code> . <b>cholesky</b> uses the standard decomposition to obtain a closed-form solution. <b>sparse_cg</b> uses the conjugate gradient solver. As an iterative algorithm, this solver is more appropriate than <code>cholesky</code> for large-scale data. <b>lsqr</b> uses the dedicated regularized least-squares routine. <b>sag</b> uses Stochastic Average Gradient descent. It also uses an iterative procedure, and is often faster than other solvers when both <code>n_samples</code> and <code>n_features</code> are large. Note that <code>sag</code> fast convergence is only guaranteed on features with approximately the same scale
random_state	The seed of the pseudo random number generator to use when shuffling the data. Used only when <code>solver = "sag"</code> .
fit_params	Optional, a mapping from parameter names in the model's fit method to the column names which hold the data, e.g. <code>list(sample_weight = 'survey_weight_column')</code> .
cross_validation_parameters	Optional, parameter grid for learner parameters, e.g. <code>list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3))</code> or "hyperband" for supported models.

oos_scores_table	Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".
oos_scores_db	Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.
oos_scores_if_exists	Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".
model_name	Optional, the prefix of the Platform modeling jobs. It will have " Train" or " Predict" added to become the Script title.
cpu_requested	Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.
memory_requested	Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.
disk_requested	Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.
notifications	Optional, model status notifications. See <a href="#">scripts_post_custom</a> for further documentation about email and URL notification.
polling_interval	Check for job completion every this number of seconds.
verbose	Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.
civisml_version	Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

### Value

A `civis_ml` object, a list containing the following elements:

job	job metadata from <a href="#">scripts_get_custom</a> .
run	run metadata from <a href="#">scripts_get_custom_runs</a> .
outputs	CivisML metadata from <a href="#">scripts_list_custom_runs_outputs</a> containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.
metrics	<p>Parsed CivisML output from <code>metrics.json</code> containing metadata from validation. A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• run list, metadata about the run.</li> <li>• data list, metadata about the training data.</li> <li>• model list, the fitted scikit-learn model with CV results.</li> <li>• metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).</li> <li>• warnings list.</li> <li>• data_platform list, training data location.</li> </ul>



`model_info`      Parsed CivisML output from `model_info.json` containing metadata from training. A list containing the following elements:

- run list, metadata about the run.
- data list, metadata about the training data.
- model list, the fitted scikit-learn model.
- metrics empty list.
- warnings list.
- `data_platform` list, training data location.

## Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

```
data.frame civis_ml(x = df, ...)
```

```
local csv file civis_ml(x = "path/to/data.csv", ...)
```

```
file in Civis Platform civis_ml(x = civis_file(1234))
```

```
table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))
```

## Examples

```
## Not run:
data(ChickWeight)
m <- civis_ml_sparse_ridge_regressor(ChickWeight, dependent_variable = "weight", alpha = 999)
yhat <- fetch_oos_scores(m)

# Grid search
cv_params <- list(alpha = c(.001, .01, .1, 1))
m <- civis_ml_sparse_ridge_regressor(ChickWeight,
  dependent_variable = "weight",
  cross_validation_parameters = cv_params,
  calibration = NULL)

# make a prediction job, storing in a redshift table
pred_info <- predict(m, newdata = civis_table("schema.table", "my_database"),
  output_table = "schema.scores_table")

## End(Not run)
```

---

civis_platform	<i>Evaluate an expression in Civis Platform</i>
----------------	---

---

## Description

This is used as with the [future](#) API as an argument to [plan](#).

## Usage

```
civis_platform(...)
```

## Arguments

... Arguments to [CivisFuture](#) and then [scripts\\_post\\_containers](#)

## Value

The result of evaluating expr.

## Examples

```
## Not run:

plan(civis_platform)

# Specify required resources, image, and tag.
fut <- future({2 + 2},
  required_resources = list(cpu = 1024, memory = 2048),
  docker_image_name = "civisanalytics/datascience-r",
  docker_image_tag = "3")

# Evaluate the future later
fut <- future({2 + 2}, lazy = TRUE)
run(fut)

# check if a future has resolved
resolved(fut)

# block until the future resolves, and return the value or throw error
value(fut)

# cancel the job
cancel(fut)

# grab the run logs
fetch_logs(fut)

# handle errors
fut <- future({stop("Error!")})
e <- tryCatch(value(fut), error = function(e) e)
```

```
get_error(e)
## End(Not run)
```

---

civis_script	<i>Civis Script</i>
--------------	---------------------

---

### Description

Create a `civis_script` object from a job and run id.

### Usage

```
civis_script(id, run_id = NULL)
```

### Arguments

<code>id</code>	integer, job id of the script.
<code>run_id</code>	integer, id of the run. If NULL (default), the most recent run will be used.

### Details

A `civis_script` can be any custom, container, R, Python, SQL, or Javascript platform script.

### Value

a `civis_script` object.

### See Also

[read\\_civis](#)

Other `script_utils`: [fetch\\_output\\_file\\_ids\(\)](#), [run\\_civis\(\)](#), [run\\_template\(\)](#)

---

civis_table	<i>A table in the Civis Platform</i>
-------------	--------------------------------------

---

### Description

Use `civis_table` to use a table in the Civis Platform with `civis_ml`.

### Usage

```
civis_table(
  table_name,
  database_name = NULL,
  sql_where = NULL,
  sql_limit = NULL
)
```

### Arguments

<code>table_name</code>	The table name, as "schema.table".
<code>database_name</code>	The name of the database holding <code>table_name</code> .
<code>sql_where</code>	A SQL WHERE clause used to scope the rows of the training or prediction table. Note, the WHERE keyword is added at runtime.
<code>sql_limit</code>	A SQL_LIMIT clause for querying the training or prediction set. Note, the LIMIT keyword is added at runtime.

### Value

A `civis_table`.

---

civis_to_multifile_csv	<i>Split a Redshift table into multiple CSV parts on S3</i>
------------------------	---

---

### Description

Split a Redshift table into multiple CSV parts on S3 and return their locations as file IDs and presigned S3 urls.

**Usage**

```
civis_to_multifile_csv(
  sql,
  database,
  job_name = NULL,
  hidden = TRUE,
  include_header = TRUE,
  compression = "gzip",
  delimiter = ",",
  unquoted = FALSE,
  prefix = NULL
)
```

**Arguments**

sql	string, The SQL select string to be executed.
database	string, Name of database where query is run.
job_name	string, optional. Name to identify scripted sql job.
hidden	logical, Whether to hide the query in platform.
include_header	logical, optional. Whether to include headers as an element in the returned list.
compression	string, optional, Type of compression to use, if any. One of 'none', 'zip', or 'gzip'.
delimiter	string, optional. Which delimiter to use. One of ',', '\t' or ' '.
unquoted	logical, optional. Whether or not to quote fields.
prefix	string, optional. A user specified filename prefix for the output files to have.

**Details**

When tables are large, unloading by splitting them first is faster. When we split a table, each Redshift compute node can dump its data into S3 in parallel with the others. By doing so, we avoid having all compute nodes sending the data through the leader node, which is slow.

This function returns a list that contains the location of the CSV parts as file IDs and presigned S3 urls. The user can use either the file IDs or the presigned S3 urls to download the CSV parts. The content of the list returned by this function is similar to that of the manifest file returned by Amazon S3 UNLOAD statements.

**Value**

A list with the items:

- header: column headers if 'include\_header' is TRUE
- query: the executed query
- entries: a list containing presigned urls for each csv part
- compression: the type of compression on each csv part
- delimiter: the delimiter used to separate fields
- unquoted: whether fields are quoted

**Examples**

```
## Not run:
# Download a table into multiple csv parts
sql <- "SELECT * FROM schema.table"
database <- "important_database"
manifest <- civis_to_multifile_csv(sql=sql, database=database)
files <- lapply(manifest[["entries"]], function(x) {
  download_civis(x$id, x$name)
  x$name
})

## End(Not run)
```

---

```
clusters_delete_kubernetes_partitions
      Delete a Cluster Partition
```

---

**Description**

Delete a Cluster Partition

**Usage**

```
clusters_delete_kubernetes_partitions(id, cluster_partition_id)
```

**Arguments**

`id` integer required. The ID of the cluster which this partition belongs to.  
`cluster_partition_id` integer required. The ID of this cluster partition.

**Value**

An empty HTTP response

---

```
clusters_get_kubernetes
      Describe a Kubernetes Cluster
```

---

**Description**

Describe a Kubernetes Cluster

**Usage**

```
clusters_get_kubernetes(id, include_usage_stats = NULL)
```

**Arguments**

id	integer required.
include_usage_stats	boolean optional. When true, usage stats are returned in instance config objects. Defaults to false.

**Value**

A list containing the following elements:

id	integer, The ID of this cluster.
organizationId	string, The id of this cluster's organization.
organizationName	string, The name of this cluster's organization.
organizationSlug	string, The slug of this cluster's organization.
clusterPartitions	array, An array containing the following fields: <ul style="list-style-type: none"> <li>clusterPartitionId integer, The ID of this cluster partition.</li> <li>name string, The name of the cluster partition.</li> <li>labels array, Labels associated with this partition.</li> <li>instanceConfigs array, The instances configured for this cluster partition.</li> <li>defaultInstanceConfigId integer, The id of the InstanceConfig that is the default for this partition.</li> </ul>
isNatEnabled	boolean, Whether this cluster needs a NAT gateway or not.
hours	number, The number of hours used this month for this cluster

---

clusters\_get\_kubernetes\_instance\_configs  
*Describe an Instance Config*

---

**Description**

Describe an Instance Config

**Usage**

```
clusters_get_kubernetes_instance_configs(
  instance_config_id,
  include_usage_stats = NULL
)
```

**Arguments**

<code>instance_config_id</code>	integer required. The ID of this instance config.
<code>include_usage_stats</code>	boolean optional. When true, usage stats are returned in instance config objects. Defaults to false.

**Value**

A list containing the following elements:

<code>instanceConfigId</code>	integer, The ID of this InstanceConfig.
<code>instanceType</code>	string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.
<code>minInstances</code>	integer, The minimum number of instances of that type in this cluster.
<code>maxInstances</code>	integer, The maximum number of instances of that type in this cluster.
<code>instanceMaxMemory</code>	integer, The amount of memory (RAM) available to a single instance of that type in megabytes.
<code>instanceMaxCpu</code>	integer, The number of processor shares available to a single instance of that type in millicores.
<code>instanceMaxDisk</code>	integer, The amount of disk available to a single instance of that type in gigabytes.
<code>usageStats</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li><code>pendingMemoryRequested</code> integer, The sum of memory requests (in MB) for pending deployments in this instance config.</li> <li><code>pendingCpuRequested</code> integer, The sum of cpu requests (in millicores) for pending deployments in this instance config.</li> <li><code>runningMemoryRequested</code> integer, The sum of memory requests (in MB) for running deployments in this instance config.</li> <li><code>runningCpuRequested</code> integer, The sum of cpu requests (in millicores) for running deployments in this instance config.</li> <li><code>pendingDeployments</code> integer, The number of pending deployments in this instance config.</li> <li><code>runningDeployments</code> integer, The number of running deployments in this instance config.</li> </ul>



---

clusters\_get\_kubernetes\_partitions  
*Describe a Cluster Partition*

---

## Description

Describe a Cluster Partition

## Usage

```
clusters_get_kubernetes_partitions(  
    id,  
    cluster_partition_id,  
    include_usage_stats = NULL  
)
```

## Arguments

`id` integer required. The ID of the cluster which this partition belongs to.

`cluster_partition_id` integer required. The ID of this cluster partition.

`include_usage_stats` boolean optional. When true, usage stats are returned in instance config objects. Defaults to false.

## Value

A list containing the following elements:

`clusterPartitionId` integer, The ID of this cluster partition.

`name` string, The name of the cluster partition.

`labels` array, Labels associated with this partition.

`instanceConfigs` array, An array containing the following fields:

- `instanceConfigId` integer, The ID of this InstanceConfig.
- `instanceType` string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.
- `minInstances` integer, The minimum number of instances of that type in this cluster.
- `maxInstances` integer, The maximum number of instances of that type in this cluster.
- `instanceMaxMemory` integer, The amount of memory (RAM) available to a single instance of that type in megabytes.
- `instanceMaxCpu` integer, The number of processor shares available to a single instance of that type in millicores.

- instanceMaxDisk integer, The amount of disk available to a single instance of that type in gigabytes.
  - usageStats object,
- defaultInstanceConfigId  
integer, The id of the InstanceConfig that is the default for this partition.

clusters\_list\_kubernetes

*List Kubernetes Clusters***Description**

List Kubernetes Clusters

**Usage**

```
clusters_list_kubernetes(
  organization_slug = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

organization_slug	string optional. The slug of this cluster's organization.
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to organization_id. Must be one of: organization_id, created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

**Value**

An array containing the following fields:

id	integer, The ID of this cluster.
organizationId	string, The id of this cluster's organization.
organizationName	string, The name of this cluster's organization.
organizationSlug	string, The slug of this cluster's organization.

**clusterPartitions**

array, An array containing the following fields:

- clusterPartitionId integer, The ID of this cluster partition.
- name string, The name of the cluster partition.
- labels array, Labels associated with this partition.
- instanceConfigs array, The instances configured for this cluster partition.
- defaultInstanceConfigId integer, The id of the InstanceConfig that is the default for this partition.

isNatEnabled     boolean, Whether this cluster needs a NAT gateway or not.

---

**clusters\_list\_kubernetes\_deployments**

*List the deployments associated with a Kubernetes Cluster*

---

**Description**

List the deployments associated with a Kubernetes Cluster

**Usage**

```
clusters_list_kubernetes_deployments(
  id,
  base_type = NULL,
  state = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

id	integer required. The id of the cluster.
base_type	string optional. If specified, return deployments of these base types. It accepts a comma-separated list, possible values are 'Notebook', 'Service', 'Run'.
state	string optional. If specified, return deployments in these states. It accepts a comma-separated list, possible values are pending, running, terminated, sleeping
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

**Value**

An array containing the following fields:

id	integer, The id of this deployment.
name	string, The name of the deployment.
baseId	integer, The id of the base object associated with the deployment.
baseType	string, The base type of this deployment.
state	string, The state of the deployment.
cpu	integer, The CPU in millicores required by the deployment.
memory	integer, The memory in MB required by the deployment.
diskSpace	integer, The disk space in GB required by the deployment.
instanceType	string, The EC2 instance type requested for the deployment.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
createdAt	string,
updatedAt	string,

---

clusters\_list\_kubernetes\_deployment\_stats

*Get stats about deployments associated with a Kubernetes Cluster*

---

**Description**

Get stats about deployments associated with a Kubernetes Cluster

**Usage**

```
clusters_list_kubernetes_deployment_stats(id)
```

**Arguments**

id	integer required. The ID of this cluster.
----	---

**Value**

An array containing the following fields:

baseType	string, The base type of this deployment
state	string, State of the deployment
count	integer, Number of deployments of base type and state
totalCpu	integer, Total amount of CPU in millicores for deployments of base type and state
totalMemory	integer, Total amount of Memory in megabytes for deployments of base type and state

---

clusters\_list\_kubernetes\_instance\_configs\_historical\_graphs

*Get graphs of historical resource usage in an Instance Config*

---

**Description**

Get graphs of historical resource usage in an Instance Config

**Usage**

```
clusters_list_kubernetes_instance_configs_historical_graphs(
    instance_config_id,
    timeframe = NULL
)
```

**Arguments**

instance_config_id	integer required. The ID of this instance config.
timeframe	string optional. The span of time that the graphs cover. Must be one of 1_day, 1_week.

**Value**

A list containing the following elements:

cpuGraphUrl	string, URL for the graph of historical CPU usage in this instance config.
memGraphUrl	string, URL for the graph of historical memory usage in this instance config.

---

 clusters\_list\_kubernetes\_instance\_configs\_user\_statistics

*Get statistics about the current users of an Instance Config*


---

### Description

Get statistics about the current users of an Instance Config

### Usage

```
clusters_list_kubernetes_instance_configs_user_statistics(
    instance_config_id,
    order = NULL,
    order_dir = NULL
)
```

### Arguments

instance_config_id	integer required. The ID of this instance config.
order	string optional. The field on which to order the result set. Defaults to running_deployments. Must be one of pending_memory_requested, pending_cpu_requested, running_memory_requested, running_cpu_requested, pending_deployments, running_deployments.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending). Defaults to desc.

### Value

An array containing the following fields:

userId	string, The owning user's ID
userName	string, The owning user's name
pendingDeployments	integer, The number of deployments belonging to the owning user in "pending" state
pendingMemoryRequested	integer, The sum of memory requests (in MB) for deployments belonging to the owning user in "pending" state
pendingCpuRequested	integer, The sum of CPU requests (in millicores) for deployments belonging to the owning user in "pending" state
runningDeployments	integer, The number of deployments belonging to the owning user in "running" state

runningMemoryRequested	integer, The sum of memory requests (in MB) for deployments belonging to the owning user in "running" state
runningCpuRequested	integer, The sum of CPU requests (in millicores) for deployments belonging to the owning user in "running" state

---

clusters\_list\_kubernetes\_partitions

*List Cluster Partitions for given cluster*

---

### Description

List Cluster Partitions for given cluster

### Usage

```
clusters_list_kubernetes_partitions(id, include_usage_stats = NULL)
```

### Arguments

id	integer required.
include_usage_stats	boolean optional. When true, usage stats are returned in instance config objects. Defaults to false.

### Value

An array containing the following fields:

clusterPartitionId	integer, The ID of this cluster partition.
name	string, The name of the cluster partition.
labels	array, Labels associated with this partition.
instanceConfigs	array, An array containing the following fields: <ul style="list-style-type: none"> <li>instanceConfigId integer, The ID of this InstanceConfig.</li> <li>instanceType string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.</li> <li>minInstances integer, The minimum number of instances of that type in this cluster.</li> <li>maxInstances integer, The maximum number of instances of that type in this cluster.</li> <li>instanceMaxMemory integer, The amount of memory (RAM) available to a single instance of that type in megabytes.</li> </ul>

- instanceMaxCpu integer, The number of processor shares available to a single instance of that type in millicores.
- instanceMaxDisk integer, The amount of disk available to a single instance of that type in gigabytes.
- usageStats object,

defaultInstanceConfigId

integer, The id of the InstanceConfig that is the default for this partition.

---

clusters\_patch\_kubernetes

*Update a Kubernetes Cluster*

---

## Description

Update a Kubernetes Cluster

## Usage

clusters\_patch\_kubernetes(id, is\_nat\_enabled = NULL)

## Arguments

id integer required. The ID of this cluster.  
 is\_nat\_enabled boolean optional. Whether this cluster needs a NAT gateway or not.

## Value

A list containing the following elements:

id integer, The ID of this cluster.  
 organizationId string, The id of this cluster's organization.  
 organizationName string, The name of this cluster's organization.  
 organizationSlug string, The slug of this cluster's organization.  
 clusterPartitions array, An array containing the following fields:
 

- clusterPartitionId integer, The ID of this cluster partition.
- name string, The name of the cluster partition.
- labels array, Labels associated with this partition.
- instanceConfigs array, The instances configured for this cluster partition.
- defaultInstanceConfigId integer, The id of the InstanceConfig that is the default for this partition.

 isNatEnabled boolean, Whether this cluster needs a NAT gateway or not.  
 hours number, The number of hours used this month for this cluster



---

clusters\_patch\_kubernetes\_partitions  
*Update a Cluster Partition*

---

**Description**

Update a Cluster Partition

**Usage**

```
clusters_patch_kubernetes_partitions(
  id,
  cluster_partition_id,
  instance_configs = NULL,
  name = NULL,
  labels = NULL
)
```

**Arguments**

id	integer required. The ID of the cluster which this partition belongs to.
cluster_partition_id	integer required. The ID of this cluster partition.
instance_configs	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>instanceType string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.</li> <li>minInstances integer, The minimum number of instances of that type in this cluster.</li> <li>maxInstances integer, The maximum number of instances of that type in this cluster.</li> </ul>
name	string optional. The name of the cluster partition.
labels	array optional. Labels associated with this partition.

**Value**

A list containing the following elements:

clusterPartitionId	integer, The ID of this cluster partition.
name	string, The name of the cluster partition.
labels	array, Labels associated with this partition.
instanceConfigs	array, An array containing the following fields: <ul style="list-style-type: none"> <li>instanceConfigId integer, The ID of this InstanceConfig.</li> </ul>

- `instanceType` string, An EC2 instance type. Possible values include `t2.large`, `m4.xlarge`, `m4.2xlarge`, `m4.4xlarge`, `m5.12xlarge`, and `p2.xlarge`.
- `minInstances` integer, The minimum number of instances of that type in this cluster.
- `maxInstances` integer, The maximum number of instances of that type in this cluster.
- `instanceMaxMemory` integer, The amount of memory (RAM) available to a single instance of that type in megabytes.
- `instanceMaxCpu` integer, The number of processor shares available to a single instance of that type in millicores.
- `instanceMaxDisk` integer, The amount of disk available to a single instance of that type in gigabytes.
- `usageStats` object,

`defaultInstanceConfigId`

integer, The id of the InstanceConfig that is the default for this partition.

---

clusters\_post\_kubernetes

*Create a Kubernetes Cluster*

---

### Description

Create a Kubernetes Cluster

### Usage

```
clusters_post_kubernetes(
  organization_id = NULL,
  organization_slug = NULL,
  is_nat_enabled = NULL
)
```

### Arguments

`organization_id`

string optional. The id of this cluster's organization.

`organization_slug`

string optional. The slug of this cluster's organization.

`is_nat_enabled` boolean optional. Whether this cluster needs a NAT gateway or not.

### Value

A list containing the following elements:

`id` integer, The ID of this cluster.

`organizationId` string, The id of this cluster's organization.

organizationName	string, The name of this cluster's organization.
organizationSlug	string, The slug of this cluster's organization.
clusterPartitions	array, An array containing the following fields: <ul style="list-style-type: none"> <li>clusterPartitionId integer, The ID of this cluster partition.</li> <li>name string, The name of the cluster partition.</li> <li>labels array, Labels associated with this partition.</li> <li>instanceConfigs array, The instances configured for this cluster partition.</li> <li>defaultInstanceConfigId integer, The id of the InstanceConfig that is the default for this partition.</li> </ul>
isNatEnabled	boolean, Whether this cluster needs a NAT gateway or not.
hours	number, The number of hours used this month for this cluster

---

clusters\_post\_kubernetes\_partitions

*Create a Cluster Partition for given cluster*


---

## Description

Create a Cluster Partition for given cluster

## Usage

```
clusters_post_kubernetes_partitions(id, instance_configs, name, labels)
```

## Arguments

id	integer required. The ID of the cluster which this partition belongs to.
instance_configs	array required. An array containing the following fields: <ul style="list-style-type: none"> <li>instanceType string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.</li> <li>minInstances integer, The minimum number of instances of that type in this cluster.</li> <li>maxInstances integer, The maximum number of instances of that type in this cluster.</li> </ul>
name	string required. The name of the cluster partition.
labels	array required. Labels associated with this partition.

**Value**

A list containing the following elements:

clusterPartitionId	integer, The ID of this cluster partition.
name	string, The name of the cluster partition.
labels	array, Labels associated with this partition.
instanceConfigs	array, An array containing the following fields: <ul style="list-style-type: none"> <li>instanceConfigId integer, The ID of this InstanceConfig.</li> <li>instanceType string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.</li> <li>minInstances integer, The minimum number of instances of that type in this cluster.</li> <li>maxInstances integer, The maximum number of instances of that type in this cluster.</li> <li>instanceMaxMemory integer, The amount of memory (RAM) available to a single instance of that type in megabytes.</li> <li>instanceMaxCpu integer, The number of processor shares available to a single instance of that type in millicores.</li> <li>instanceMaxDisk integer, The amount of disk available to a single instance of that type in gigabytes.</li> <li>usageStats object,</li> </ul>
defaultInstanceConfigId	integer, The id of the InstanceConfig that is the default for this partition.

---

coef.civis\_ml

*Get civis\_ml model coefficients*


---

**Description**

Get civis\_ml model coefficients

**Usage**

```
## S3 method for class 'civis_ml'
coef(object, complete = TRUE, ...)
```

**Arguments**

object	civis_ml_model
complete	see documentation for generic coef()
...	other arguments

**Details**

Outputs coefficients with names in the style of 'stats::coef'

**Value**

a matrix of coefficients, or 'NULL' if none available from CivisML

---

credentials\_delete\_shares\_groups

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
credentials_delete_shares_groups(id, group_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

credentials\_delete\_shares\_users

*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
credentials_delete_shares_users(id, user_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

credentials_get	<i>Get a credential</i>
-----------------	-------------------------

---

**Description**

Get a credential

**Usage**

```
credentials_get(id)
```

**Arguments**

id	integer required. The ID of the credential.
----	---

**Value**

A list containing the following elements:

id	integer, The ID of the credential.
name	string, The name identifying the credential
type	string, The credential's type.
username	string, The username for the credential.
description	string, A long description of the credential.
owner	string, The name of the user who this credential belongs to.
remoteHostId	integer, The ID of the remote host associated with this credential.
remoteHostName	string, The name of the remote host associated with this credential.
state	string, The U.S. state for the credential. Only for VAN credentials.
createdAt	string, The creation time for this credential.
updatedAt	string, The last modification time for this credential.

---

credentials_list	<i>List credentials</i>
------------------	-------------------------

---

**Description**

List credentials

**Usage**

```
credentials_list(
  type = NULL,
  remote_host_id = NULL,
  default = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

type	string optional. The type (or types) of credentials to return. One or more of: Amazon Web Services S3, Bitbucket, CASS/NCOA PAF, Certificate, Civis Platform, Custom, Database, Google, Github, Salesforce User, Salesforce Client, and TableauUser. Specify multiple values as a comma-separated list (e.g., "A,B").
remote_host_id	integer optional. The ID of the remote host associated with the credentials to return.
default	boolean optional. If true, will return a list with a single credential which is the current user's default credential.
limit	integer optional. Number of results to return. Defaults to its maximum of 1000.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, created_at, name.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The ID of the credential.
name	string, The name identifying the credential
type	string, The credential's type.
username	string, The username for the credential.
description	string, A long description of the credential.
owner	string, The name of the user who this credential belongs to.
remoteHostId	integer, The ID of the remote host associated with this credential.
remoteHostName	string, The name of the remote host associated with this credential.
state	string, The U.S. state for the credential. Only for VAN credentials.
createdAt	string, The creation time for this credential.
updatedAt	string, The last modification time for this credential.

---

credentials\_list\_shares

*List users and groups permissioned on this object*

---

### Description

List users and groups permissioned on this object

### Usage

```
credentials_list_shares(id)
```

### Arguments

id integer required. The ID of the resource that is shared.

### Value

An array containing the following fields:

readers list, A list containing the following elements:

- users array,
- groups array,

writers list, A list containing the following elements:

- users array,
- groups array,

owners list, A list containing the following elements:

- users array,
- groups array,

totalUserShares

integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares

integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.



---

credentials_post	<i>Create a credential</i>
------------------	----------------------------

---

**Description**

Create a credential

**Usage**

```
credentials_post(
  type,
  username,
  password,
  name = NULL,
  description = NULL,
  remote_host_id = NULL,
  state = NULL,
  system_credential = NULL
)
```

**Arguments**

type	string required.
username	string required. The username for the credential.
password	string required. The password for the credential.
name	string optional. The name identifying the credential.
description	string optional. A long description of the credential.
remote_host_id	integer optional. The ID of the remote host associated with the credential.
state	string optional. The U.S. state for the credential. Only for VAN credentials.
system_credential	boolean optional.

**Value**

A list containing the following elements:

id	integer, The ID of the credential.
name	string, The name identifying the credential
type	string, The credential's type.
username	string, The username for the credential.
description	string, A long description of the credential.
owner	string, The name of the user who this credential belongs to.
remoteHostId	integer, The ID of the remote host associated with this credential.

remoteHostName	string, The name of the remote host associated with this credential.
state	string, The U.S. state for the credential. Only for VAN credentials.
createdAt	string, The creation time for this credential.
updatedAt	string, The last modification time for this credential.

---

credentials\_post\_authenticate

*Authenticate against a remote host*

---

## Description

Authenticate against a remote host

## Usage

```
credentials_post_authenticate(url, remote_host_type, username, password)
```

## Arguments

url	string required. The URL to your host.
remote_host_type	string required. The type of remote host. One of: RemoteHostTypes::Bitbucket, RemoteHostTypes::GitSSH, RemoteHostTypes::Github, RemoteHostTypes::GoogleDoc, RemoteHostTypes::JDBC, RemoteHostTypes::Postgres, RemoteHostTypes::Redshift, RemoteHostTypes::S3Storage, and RemoteHostTypes::Salesforce
username	string required. The username for the credential.
password	string required. The password for the credential.

## Value

A list containing the following elements:

id	integer, The ID of the credential.
name	string, The name identifying the credential
type	string, The credential's type.
username	string, The username for the credential.
description	string, A long description of the credential.
owner	string, The name of the user who this credential belongs to.
remoteHostId	integer, The ID of the remote host associated with this credential.
remoteHostName	string, The name of the remote host associated with this credential.
state	string, The U.S. state for the credential. Only for VAN credentials.
createdAt	string, The creation time for this credential.
updatedAt	string, The last modification time for this credential.

---

 credentials\_post\_temporary

*Generate a temporary credential for accessing S3*


---

**Description**

Generate a temporary credential for accessing S3

**Usage**

```
credentials_post_temporary(id, duration = NULL)
```

**Arguments**

id	integer required. The ID of the credential.
duration	integer optional. The number of seconds the temporary credential should be valid. Defaults to 15 minutes. Must not be less than 15 minutes or greater than 36 hours.

**Value**

A list containing the following elements:

accessKey	string, The identifier of the credential.
secretAccessKey	string, The secret part of the credential.
sessionToken	string, The session token identifier.

---

 credentials\_put

*Update an existing credential*


---

**Description**

Update an existing credential

**Usage**

```
credentials_put(
  id,
  type,
  username,
  password,
  name = NULL,
  description = NULL,
  remote_host_id = NULL,
  state = NULL,
  system_credential = NULL
)
```

**Arguments**

id	integer required. The ID of the credential.
type	string required.
username	string required. The username for the credential.
password	string required. The password for the credential.
name	string optional. The name identifying the credential.
description	string optional. A long description of the credential.
remote_host_id	integer optional. The ID of the remote host associated with the credential.
state	string optional. The U.S. state for the credential. Only for VAN credentials.
system_credential	boolean optional.

**Value**

A list containing the following elements:

id	integer, The ID of the credential.
name	string, The name identifying the credential
type	string, The credential's type.
username	string, The username for the credential.
description	string, A long description of the credential.
owner	string, The name of the user who this credential belongs to.
remoteHostId	integer, The ID of the remote host associated with this credential.
remoteHostName	string, The name of the remote host associated with this credential.
state	string, The U.S. state for the credential. Only for VAN credentials.
createdAt	string, The creation time for this credential.
updatedAt	string, The last modification time for this credential.

---

credentials\_put\_shares\_groups

*Set the permissions groups has on this object*

---

**Description**

Set the permissions groups has on this object

**Usage**

```
credentials_put_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

credentials\_put\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
credentials_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

databases\_delete\_whitelist\_ips

*Remove a whitelisted IP address*

---

**Description**

Remove a whitelisted IP address

**Usage**

databases\_delete\_whitelist\_ips(id, whitelisted\_ip\_id)

**Arguments**

id integer required. The ID of the database this rule is applied to.  
 whitelisted\_ip\_id integer required. The ID of this whitelisted IP address.

**Value**

An empty HTTP response

---

databases\_get *Show database information*

---

**Description**

Show database information

**Usage**

databases\_get(id)

**Arguments**

id integer required. The ID for the database.

**Value**

A list containing the following elements:

id integer, The ID for the database.  
 name string, The name of the database.  
 adapter string, The type of the database.

---

databases\_get\_whitelist\_ips  
*View details about a whitelisted IP*

---

**Description**

View details about a whitelisted IP

**Usage**

databases\_get\_whitelist\_ips(id, whitelisted\_ip\_id)

**Arguments**

id integer required. The ID of the database this rule is applied to.  
 whitelisted\_ip\_id integer required. The ID of this whitelisted IP address.

**Value**

A list containing the following elements:

id integer, The ID of this whitelisted IP address.  
 remoteHostId integer, The ID of the database this rule is applied to.  
 securityGroupId string, The ID of the security group this rule is applied to.  
 subnetMask string, The subnet mask that is allowed by this rule.  
 authorizedBy string, The user who authorized this rule.  
 isActive boolean, True if the rule is applied, false if it has been revoked.  
 createdAt string, The time this rule was created.  
 updatedAt string, The time this rule was last updated.

---

databases_list	<i>List databases</i>
----------------	-----------------------

---

**Description**

List databases

**Usage**

databases\_list()

**Value**

An array containing the following fields:

id integer, The ID for the database.  
 name string, The name of the database.  
 adapter string, The type of the database.



---

`databases_list_advanced_settings`*Get the advanced settings for this database*

---

**Description**

Get the advanced settings for this database

**Usage**`databases_list_advanced_settings(id)`**Arguments**

<code>id</code>	integer required. The ID of the database this advanced settings object belongs to.
-----------------	--

**Value**

A list containing the following elements:

`exportCachingEnabled`

boolean, Whether or not caching is enabled for export jobs run on this database server.

---

`databases_list_schemas`*List schemas in this database*

---

**Description**

List schemas in this database

**Usage**`databases_list_schemas(id)`**Arguments**

<code>id</code>	integer required. The ID of the database.
-----------------	---

**Value**

An array containing the following fields:

<code>schema</code>	string, The name of a schema.
---------------------	-------------------------------

---

databases\_list\_tables *List tables in the specified database, deprecated use "GET /tables" instead*

---

### Description

List tables in the specified database, deprecated use "GET /tables" instead

### Usage

```
databases_list_tables(
  id,
  name = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

### Arguments

id	integer required. The ID of the database.
name	string optional. If specified, will be used to filter the tables returned. Substring matching is supported (e.g., "name=table" will return both "table1" and "my table").
limit	integer optional. Number of results to return. Defaults to 200. Maximum allowed is 1000.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to name. Must be one of: name.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

### Value

An array containing the following fields:

id	integer, The ID of the table.
databaseId	integer, The ID of the database.
schema	string, The name of the schema containing the table.
name	string, Name of the table.
description	string, The description of the table, as specified by the table owner
isView	boolean, True if this table represents a view. False if it represents a regular table.

rowCount	integer, The number of rows in the table.
columnCount	integer, The number of columns in the table.
sizeMb	number, The size of the table in megabytes.
owner	string, The database username of the table's owner.
distkey	string, The column used as the Amazon Redshift distkey.
sortkeys	string, The column used as the Amazon Redshift sortkey.
refreshStatus	string, How up-to-date the table's statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.
lastRefresh	string, The time of the last statistics refresh.
refreshId	string, The ID of the most recent statistics refresh.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>

---

databases\_list\_tables\_search

*List tables in the specified database, deprecated use "GET /tables" instead*

---

## Description

List tables in the specified database, deprecated use "GET /tables" instead

## Usage

```
databases_list_tables_search(id, name = NULL, column_name = NULL)
```

## Arguments

id	integer required. The ID of the database.
name	string optional. If specified, will be used to filter the tables returned. Substring matching is supported (e.g., "name=table" will return both "table1" and "my table").
column_name	string optional. Search for tables containing a column with the given name.

**Value**

An array containing the following fields:

id	integer, The ID of the table.
databaseId	integer, The ID of the database.
schema	string, The name of the schema containing the table.
name	string, Name of the table.
description	string, The description of the table, as specified by the table owner
isView	boolean, True if this table represents a view. False if it represents a regular table.
rowCount	integer, The number of rows in the table.
columnCount	integer, The number of columns in the table.
sizeMb	number, The size of the table in megabytes.
owner	string, The database username of the table's owner.
distkey	string, The column used as the Amazon Redshift distkey.
sortkeys	string, The column used as the Amazon Redshift sortkey.
refreshStatus	string, How up-to-date the table's statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.
lastRefresh	string, The time of the last statistics refresh.
refreshId	string, The ID of the most recent statistics refresh.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
columnNames	array, The names of each column in the table.

---

databases\_list\_whitelist\_ips

*List whitelisted IPs for the specified database*

---

**Description**

List whitelisted IPs for the specified database

**Usage**

databases\_list\_whitelist\_ips(id)

**Arguments**

id integer required. The ID for the database.

**Value**

An array containing the following fields:

id integer, The ID of this whitelisted IP address.  
 remoteHostId integer, The ID of the database this rule is applied to.  
 securityGroupId string, The ID of the security group this rule is applied to.  
 subnetMask string, The subnet mask that is allowed by this rule.  
 createdAt string, The time this rule was created.  
 updatedAt string, The time this rule was last updated.

---

databases\_patch\_advanced\_settings

*Update the advanced settings for this database*

---

**Description**

Update the advanced settings for this database

**Usage**

```
databases_patch_advanced_settings(id, export_caching_enabled = NULL)
```

**Arguments**

id integer required. The ID of the database this advanced settings object belongs to.  
 export\_caching\_enabled boolean optional. Whether or not caching is enabled for export jobs run on this database server.

**Value**

A list containing the following elements:

exportCachingEnabled boolean, Whether or not caching is enabled for export jobs run on this database server.

---

databases\_post\_schemas\_scan

*Creates and enqueues a schema scanner job*

---

### Description

Creates and enqueues a schema scanner job

### Usage

databases\_post\_schemas\_scan(id, schema, stats\_priority = NULL)

### Arguments

id	integer required. The ID of the database.
schema	string required. The name of the schema.
stats_priority	string optional. When to sync table statistics for every table in the schema. Valid options are the following. Option: 'flag' means to flag stats for the next scheduled run of a full table scan on the database. Option: 'block' means to block this job on stats syncing. Option: 'queue' means to queue a separate job for syncing stats and do not block this job on the queued job. Defaults to 'flag'

### Value

A list containing the following elements:

jobId	integer, The ID of the job created.
runId	integer, The ID of the run created.

---

databases\_post\_whitelist\_ips

*Whitelist an IP address*

---

### Description

Whitelist an IP address

### Usage

databases\_post\_whitelist\_ips(id, subnet\_mask)

### Arguments

id	integer required. The ID of the database this rule is applied to.
subnet_mask	string required. The subnet mask that is allowed by this rule.

**Value**

A list containing the following elements:

id	integer, The ID of this whitelisted IP address.
remoteHostId	integer, The ID of the database this rule is applied to.
securityGroupId	string, The ID of the security group this rule is applied to.
subnetMask	string, The subnet mask that is allowed by this rule.
authorizedBy	string, The user who authorized this rule.
isActive	boolean, True if the rule is applied, false if it has been revoked.
createdAt	string, The time this rule was created.
updatedAt	string, The time this rule was last updated.

---

databases\_put\_advanced\_settings

*Edit the advanced settings for this database*

---

**Description**

Edit the advanced settings for this database

**Usage**

databases\_put\_advanced\_settings(id, export\_caching\_enabled)

**Arguments**

id	integer required. The ID of the database this advanced settings object belongs to.
export_caching_enabled	boolean required. Whether or not caching is enabled for export jobs run on this database server.

**Value**

A list containing the following elements:

exportCachingEnabled	boolean, Whether or not caching is enabled for export jobs run on this database server.
----------------------	---

---

default_credential	<i>The current user's default credential.</i>
--------------------	---

---

**Description**

The current user's default credential.

**Usage**

```
default_credential()
```

**Value**

credential\_id, id of the default credential for the current user.

---

download_civis	<i>Download a table or a file from the Civis Platform to local disk</i>
----------------	---

---

**Description**

download\_civis downloads a file based on the type of its first argument, which can be a string "schema.table", a SQL query sql(...), or a numeric file ID.

A table or a query from Redshift will be downloaded onto disk as a CSV. A file from Platform files endpoint will be downloaded as is.

A default database can be set using options(civis.default\_db = "my\_database"). If there is only one database available, this database will automatically be used as the default.

**Usage**

```
download_civis(x, ...)
```

```
## S3 method for class 'character'
download_civis(
  x,
  database = NULL,
  file,
  overwrite = FALSE,
  progress = FALSE,
  split = FALSE,
  job_name = NULL,
  hidden = TRUE,
  verbose = FALSE,
  ...
)
```



```
## S3 method for class 'sql'
download_civis(
  x,
  database = NULL,
  file,
  overwrite = FALSE,
  progress = FALSE,
  split = FALSE,
  job_name = NULL,
  hidden = TRUE,
  verbose = FALSE,
  ...
)

## S3 method for class 'numeric'
download_civis(x, file, overwrite = FALSE, progress = FALSE, ...)
```

### Arguments

x	"schema.table", sql("query"), or a file id.
...	Currently ignored.
database	string, The database. If NULL, tries to use the default database.
file	string, The file to write to.
overwrite	logical, Whether to overwrite the existing file.
progress	logical, Whether to display a progress bar.
split	logical, Whether to download a big table by splitting it into multiple CSV parts first. See <a href="#">civis_to_multifile_csv</a> for details.
job_name	string, Name of the job (default: "Civis Download Via R Client").
hidden	logical, Whether the job is hidden on Platform.
verbose	logical, Whether to print detailed updates of job status.

### Value

The file where the downloaded files or tables are written to. It is returned invisibly.

### Methods (by class)

- `character`: Download a table from Redshift to disk as CSV.
- `sql`: Download the result of a SQL query from Redshift to disk as CSV.
- `numeric`: Download a file from Platform files endpoint to disk.

### See Also

Other io: [query\\_civis\\_file\(\)](#), [query\\_civis\(\)](#), [read\\_civis\(\)](#), [write\\_civis\\_file\(\)](#), [write\\_civis\(\)](#)

**Examples**

```
## Not run:
# Download all columns in a single table into a CSV
download_civis("schema.table", database = "my_database",
              file = "~/Downloads/my_table.csv")

# Download data from a SQL select statement into a CSV
query <- sql("SELECT * FROM table JOIN other_table USING id WHERE var1 < 23")
download_civis(query, database = "my_database",
              file = "~/Downloads/my_table.csv")

# Set a default database
options(civis.default_db = "my_database")

# Download any file from the files endpoint.
file_id <- write_civis_file(df)
download_civis(file_id, file = "df.rds", progress = TRUE)
df2 <- readRDS("df.rds")
identical(df, df2)

## End(Not run)
```

---

endpoints\_list

*List API endpoints*


---

**Description**

List API endpoints

**Usage**

```
endpoints_list()
```

**Value**

An empty HTTP response

---

enhancements\_delete\_cass\_ncoa\_projects

*Remove a CASS/NCOA Enhancement from a project*


---

**Description**

Remove a CASS/NCOA Enhancement from a project

**Usage**

enhancements\_delete\_cass\_ncoa\_projects(id, project\_id)

**Arguments**

id integer required. The ID of the CASS/NCOA Enhancement.  
 project\_id integer required. The ID of the project.

**Value**

An empty HTTP response

---

enhancements\_delete\_cass\_ncoa\_runs  
*Cancel a run*

---

**Description**

Cancel a run

**Usage**

enhancements\_delete\_cass\_ncoa\_runs(id, run\_id)

**Arguments**

id integer required. The ID of the cass\_ncoa.  
 run\_id integer required. The ID of the run.

**Value**

An empty HTTP response

---

enhancements\_delete\_cass\_ncoa\_shares\_groups  
*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

enhancements\_delete\_cass\_ncoa\_shares\_groups(id, group\_id)

**Arguments**

id integer required. The ID of the resource that is shared.  
 group\_id integer required. The ID of the group.

**Value**

An empty HTTP response

---

enhancements\_delete\_cass\_ncoa\_shares\_users

*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

enhancements\_delete\_cass\_ncoa\_shares\_users(id, user\_id)

**Arguments**

id integer required. The ID of the resource that is shared.  
 user\_id integer required. The ID of the user.

**Value**

An empty HTTP response

---

enhancements\_delete\_civis\_data\_match\_projects

*Remove a Civis Data Match Enhancement from a project*

---

**Description**

Remove a Civis Data Match Enhancement from a project

**Usage**

enhancements\_delete\_civis\_data\_match\_projects(id, project\_id)

**Arguments**

id integer required. The ID of the Civis Data Match Enhancement.  
 project\_id integer required. The ID of the project.

**Value**

An empty HTTP response

---

enhancements\_delete\_civis\_data\_match\_runs  
*Cancel a run*

---

**Description**

Cancel a run

**Usage**

enhancements\_delete\_civis\_data\_match\_runs(id, run\_id)

**Arguments**

id	integer required. The ID of the civis_data_match.
run_id	integer required. The ID of the run.

**Value**

An empty HTTP response

---

enhancements\_delete\_civis\_data\_match\_shares\_groups  
*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

enhancements\_delete\_civis\_data\_match\_shares\_groups(id, group\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

enhancements\_delete\_civis\_data\_match\_shares\_users  
*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

enhancements\_delete\_civis\_data\_match\_shares\_users(id, user\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

enhancements\_delete\_geocode\_projects  
*Remove a Geocode Enhancement from a project*

---

**Description**

Remove a Geocode Enhancement from a project

**Usage**

enhancements\_delete\_geocode\_projects(id, project\_id)

**Arguments**

id	integer required. The ID of the Geocode Enhancement.
project_id	integer required. The ID of the project.

**Value**

An empty HTTP response

---

enhancements\_delete\_geocode\_runs  
*Cancel a run*

---

**Description**

Cancel a run

**Usage**

```
enhancements_delete_geocode_runs(id, run_id)
```

**Arguments**

id	integer required. The ID of the geocode.
run_id	integer required. The ID of the run.

**Value**

An empty HTTP response

---

enhancements\_delete\_geocode\_shares\_groups  
*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
enhancements_delete_geocode_shares_groups(id, group_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

enhancements\_delete\_geocode\_shares\_users  
*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

enhancements\_delete\_geocode\_shares\_users(id, user\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

enhancements\_get\_cass\_ncoa  
*Get a CASS/NCOA Enhancement*

---

**Description**

Get a CASS/NCOA Enhancement

**Usage**

enhancements\_get\_cass\_ncoa(id)

**Arguments**

id	integer required.
----	-------------------

**Value**

A list containing the following elements:

id	integer, The ID for the enhancement.
name	string, The name of the enhancement job.
type	string, The type of the enhancement (e.g CASS-NCOA)
createdAt	string, The time this enhancement was created.



updatedAt	string, The time the enhancement was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the enhancement's last run
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, Parent ID that triggers this enhancement.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseTable list . A list containing the following elements:</li> </ul>

	<ul style="list-style-type: none"> <li>- schema string, The schema name of the source table.</li> <li>- table string, The name of the source table.</li> <li>- remoteHostId integer, The ID of the database host for the table.</li> <li>- credentialId integer, The id of the credentials to be used when performing the enhancement.</li> <li>- multipartKey array, The source table primary key.</li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseTable list . A list containing the following elements: <ul style="list-style-type: none"> <li>- schema string, The schema name for the output data.</li> <li>- table string, The table name for the output data.</li> </ul> </li> </ul>
columnMapping	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• address1 string, The first address line.</li> <li>• address2 string, The second address line.</li> <li>• city string, The city of an address.</li> <li>• state string, The state of an address.</li> <li>• zip string, The zip code of an address.</li> <li>• name string, The full name of the resident at this address. If needed, separate multiple columns with '+', e.g. 'first_name+last_name'</li> <li>• company string, The name of the company located at this address.</li> </ul>
useDefaultColumnMapping	boolean, Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.
performNcoa	boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.
ncoaCredentialId	integer, Credential to use when performing NCOA updates. Required if 'performNcoa' is true.
outputLevel	string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all.' For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.
limitingSQL	string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
archived	string, The archival status of the requested item(s).

---

enhancements\_get\_cass\_ncoa\_runs

*Check status of a run*

---

## Description

Check status of a run

**Usage**

```
enhancements_get_cass_ncoa_runs(id, run_id)
```

**Arguments**

id	integer required. The ID of the cass_ncoa.
run_id	integer required. The ID of the run.

**Value**

A list containing the following elements:

id	integer, The ID of the run.
cassNcoaId	integer, The ID of the cass_ncoa.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

```
enhancements_get_civis_data_match
```

*Get a Civis Data Match Enhancement*

---

**Description**

Get a Civis Data Match Enhancement

**Usage**

```
enhancements_get_civis_data_match(id)
```

**Arguments**

id	integer required.
----	-------------------

**Value**

A list containing the following elements:

id	integer, The ID for the enhancement.
name	string, The name of the enhancement job.
type	string, The type of the enhancement (e.g CASS-NCOA)
createdAt	string, The time this enhancement was created.
updatedAt	string, The time the enhancement was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the enhancement's last run
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, Parent ID that triggers this enhancement.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements:

	<ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
inputFieldMapping	list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.
inputTable	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseName string, The Redshift database name for the table.</li> <li>• schema string, The schema name for the table.</li> <li>• table string, The table name.</li> </ul>
matchTargetId	integer, The ID of the Civis Data match target. See /match_targets for IDs.
outputTable	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseName string, The Redshift database name for the table.</li> <li>• schema string, The schema name for the table.</li> <li>• table string, The table name.</li> </ul>
maxMatches	integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.
threshold	number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.
archived	boolean, Whether the Civis Data Match Job has been archived.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>

---

enhancements\_get\_civis\_data\_match\_runs

*Check status of a run*

---

## Description

Check status of a run

## Usage

enhancements\_get\_civis\_data\_match\_runs(id, run\_id)

**Arguments**

id	integer required. The ID of the civis_data_match.
run_id	integer required. The ID of the run.

**Value**

A list containing the following elements:

id	integer, The ID of the run.
civisDataMatchId	integer, The ID of the civis_data_match.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

enhancements\_get\_geocode

*Get a Geocode Enhancement*

---

**Description**

Get a Geocode Enhancement

**Usage**

```
enhancements_get_geocode(id)
```

**Arguments**

id	integer required.
----	-------------------

**Value**

A list containing the following elements:

id	integer, The ID for the enhancement.
name	string, The name of the enhancement job.
type	string, The type of the enhancement (e.g CASS-NCOA)
createdAt	string, The time this enhancement was created.
updatedAt	string, The time the enhancement was last updated.
author	list, A list containing the following elements:

	<ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the enhancement's last run
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, Parent ID that triggers this enhancement.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
remoteHostId	integer, The ID of the remote host.
credentialId	integer, The ID of the remote host credential.
sourceSchemaAndTable	string, The source database schema and table.
multipartKey	array, The source table primary key.

limitingSQL	string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
targetSchema	string, The output table schema.
targetTable	string, The output table name.
country	string, The country of the addresses to be geocoded; either 'us' or 'ca'.
provider	string, The geocoding provider; one of postgis, nominatim, and geocoder_ca.
outputAddress	boolean, Whether to output the parsed address. Only guaranteed for the 'postgis' provider.
archived	string, The archival status of the requested item(s).

---

enhancements\_get\_geocode\_runs  
*Check status of a run*

---

### Description

Check status of a run

### Usage

enhancements\_get\_geocode\_runs(id, run\_id)

### Arguments

id	integer required. The ID of the geocode.
run_id	integer required. The ID of the run.

### Value

A list containing the following elements:

id	integer, The ID of the run.
geocodeId	integer, The ID of the geocode.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.



---

enhancements\_list      *List Enhancements*

---

### Description

List Enhancements

### Usage

```
enhancements_list(
    type = NULL,
    author = NULL,
    status = NULL,
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

### Arguments

type	string optional. If specified, return items of these types.
author	string optional. If specified, return items from this author. Must use user IDs. A comma separated list of IDs is also accepted to return items from multiple authors.
status	string optional. If specified, returns items with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.
archived	string optional. The archival status of the requested item(s).
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at, last_run.updated_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

### Value

An array containing the following fields:

id	integer, The ID for the enhancement.
name	string, The name of the enhancement job.

type	string, The type of the enhancement (e.g CASS-NCOA)
createdAt	string, The time this enhancement was created.
updatedAt	string, The time the enhancement was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the enhancement's last run
archived	string, The archival status of the requested item(s).

---

enhancements\_list\_cass\_ncoa\_projects

*List the projects a CASS/NCOA Enhancement belongs to*

---

### Description

List the projects a CASS/NCOA Enhancement belongs to

### Usage

```
enhancements_list_cass_ncoa_projects(id, hidden = NULL)
```

### Arguments

id	integer required. The ID of the CASS/NCOA Enhancement.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

### Value

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.

users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

enhancements\_list\_cass\_ncoa\_runs

*List runs for the given cass\_ncoa*

---

### Description

List runs for the given cass\_ncoa

### Usage

```
enhancements_list_cass_ncoa_runs(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

### Arguments

id	integer required. The ID of the cass_ncoa.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The ID of the run.
cassNcoaId	integer, The ID of the cass_ncoa.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

enhancements\_list\_cass\_ncoa\_runs\_logs  
*Get the logs for a run*

---

**Description**

Get the logs for a run

**Usage**

```
enhancements_list_cass_ncoa_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

id	integer required. The ID of the cass_ncoa.
run_id	integer required. The ID of the run.
last_id	integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit	integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

id	integer, The ID of the log.
createdAt	string, The time the log was created.
message	string, The log message.
level	string, The level of the log. One of unknown,fatal,error,warn,info,debug.

---

```
enhancements_list_cass_ncoa_runs_outputs
    List the outputs for a run
```

---

**Description**

List the outputs for a run

**Usage**

```
enhancements_list_cass_ncoa_runs_outputs(
    id,
    run_id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

id	integer required. The ID of the job.
run_id	integer required. The ID of the run.
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

objectType	string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId	integer, The ID of the output.
name	string, The name of the output.
link	string, The hypermedia link to the output.
value	string,

---

enhancements\_list\_cass\_ncoa\_shares

*List users and groups permissioned on this object*

---

### **Description**

List users and groups permissioned on this object

### **Usage**

enhancements\_list\_cass\_ncoa\_shares(id)

### **Arguments**

id                    integer required. The ID of the resource that is shared.

### **Value**

An array containing the following fields:

readers            list, A list containing the following elements:

- users array,
- groups array,

writers            list, A list containing the following elements:

- users array,
- groups array,

owners             list, A list containing the following elements:

- users array,
- groups array,

totalUserShares

integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares

integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

 enhancements\_list\_civis\_data\_match\_projects

*List the projects a Civis Data Match Enhancement belongs to*


---

### Description

List the projects a Civis Data Match Enhancement belongs to

### Usage

```
enhancements_list_civis_data_match_projects(id, hidden = NULL)
```

### Arguments

id	integer required. The ID of the Civis Data Match Enhancement.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

### Value

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

enhancements\_list\_civis\_data\_match\_runs  
*List runs for the given civis\_data\_match*

---

### Description

List runs for the given civis\_data\_match

### Usage

```
enhancements_list_civis_data_match_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

### Arguments

id	integer required. The ID of the civis_data_match.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

### Value

An array containing the following fields:

id	integer, The ID of the run.
civisDataMatchId	integer, The ID of the civis_data_match.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.



---

`enhancements_list_civis_data_match_runs_logs`*Get the logs for a run*

---

**Description**

Get the logs for a run

**Usage**

```
enhancements_list_civis_data_match_runs_logs(  
    id,  
    run_id,  
    last_id = NULL,  
    limit = NULL  
)
```

**Arguments**

<code>id</code>	integer required. The ID of the <code>civis_data_match</code> .
<code>run_id</code>	integer required. The ID of the run.
<code>last_id</code>	integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by <code>createdAt</code> .
<code>limit</code>	integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

<code>id</code>	integer, The ID of the log.
<code>createdAt</code>	string, The time the log was created.
<code>message</code>	string, The log message.
<code>level</code>	string, The level of the log. One of <code>unknown</code> , <code>fatal</code> , <code>error</code> , <code>warn</code> , <code>info</code> , <code>debug</code> .

---

enhancements\_list\_civis\_data\_match\_runs\_outputs

*List the outputs for a run*

---

### Description

List the outputs for a run

### Usage

```
enhancements_list_civis_data_match_runs_outputs(
  id,
  run_id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

### Arguments

id	integer required. The ID of the job.
run_id	integer required. The ID of the run.
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

### Value

An array containing the following fields:

objectType	string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId	integer, The ID of the output.
name	string, The name of the output.
link	string, The hypermedia link to the output.
value	string,

---

enhancements\_list\_civis\_data\_match\_shares

*List users and groups permissioned on this object*

---

### **Description**

List users and groups permissioned on this object

### **Usage**

enhancements\_list\_civis\_data\_match\_shares(id)

### **Arguments**

id                    integer required. The ID of the resource that is shared.

### **Value**

An array containing the following fields:

readers            list, A list containing the following elements:

- users array,
- groups array,

writers            list, A list containing the following elements:

- users array,
- groups array,

owners             list, A list containing the following elements:

- users array,
- groups array,

totalUserShares

integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares

integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

enhancements\_list\_field\_mapping

*List the fields in a field mapping for Civi Data Match, Data Unification, and Table Deduplication jobs*

---

### **Description**

List the fields in a field mapping for Civi Data Match, Data Unification, and Table Deduplication jobs

### **Usage**

```
enhancements_list_field_mapping()
```

### **Value**

An array containing the following fields:

field	string, The name of the field.
description	string, The description of the field.

---

enhancements\_list\_geocode\_projects

*List the projects a Geocode Enhancement belongs to*

---

### **Description**

List the projects a Geocode Enhancement belongs to

### **Usage**

```
enhancements_list_geocode_projects(id, hidden = NULL)
```

### **Arguments**

id	integer required. The ID of the Geocode Enhancement.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

enhancements\_list\_geocode\_runs

*List runs for the given geocode*

---

**Description**

List runs for the given geocode

**Usage**

```
enhancements_list_geocode_runs(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

id	integer required. The ID of the geocode.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The ID of the run.
geocodeId	integer, The ID of the geocode.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

enhancements\_list\_geocode\_runs\_logs

*Get the logs for a run*

---

**Description**

Get the logs for a run

**Usage**

```
enhancements_list_geocode_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

id	integer required. The ID of the geocode.
run_id	integer required. The ID of the run.
last_id	integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit	integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

id	integer, The ID of the log.
createdAt	string, The time the log was created.
message	string, The log message.
level	string, The level of the log. One of unknown,fatal,error,warn,info,debug.

---

enhancements\_list\_geocode\_runs\_outputs  
*List the outputs for a run*

---

**Description**

List the outputs for a run

**Usage**

```
enhancements_list_geocode_runs_outputs(
  id,
  run_id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

id	integer required. The ID of the job.
run_id	integer required. The ID of the run.
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

objectType	string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId	integer, The ID of the output.
name	string, The name of the output.
link	string, The hypermedia link to the output.
value	string,

---

enhancements\_list\_geocode\_shares

*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

enhancements\_list\_geocode\_shares(id)

**Arguments**

id integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.



---

enhancements\_list\_types

*List available enhancement types*

---

**Description**

List available enhancement types

**Usage**

enhancements\_list\_types()

**Value**

An array containing the following fields:

name                    string, The name of the type.

---

enhancements\_patch\_cass\_ncoa

*Update some attributes of this CASS/NCOA Enhancement*

---

**Description**

Update some attributes of this CASS/NCOA Enhancement

**Usage**

```
enhancements_patch_cass_ncoa(  
    id,  
    name = NULL,  
    schedule = NULL,  
    parent_id = NULL,  
    notifications = NULL,  
    source = NULL,  
    destination = NULL,  
    column_mapping = NULL,  
    use_default_column_mapping = NULL,  
    perform_ncoa = NULL,  
    ncoa_credential_id = NULL,  
    output_level = NULL,  
    limiting_sql = NULL  
)
```

**Arguments**

id	integer required. The ID for the enhancement.
name	string optional. The name of the enhancement job.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parent_id	integer optional. Parent ID that triggers this enhancement.
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
source	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseTable list . A list containing the following elements: <ul style="list-style-type: none"> <li>– schema string, The schema name of the source table.</li> <li>– table string, The name of the source table.</li> <li>– remoteHostId integer, The ID of the database host for the table.</li> <li>– credentialId integer, The id of the credentials to be used when performing the enhancement.</li> <li>– multipartKey array, The source table primary key.</li> </ul> </li> </ul>
destination	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseTable list . A list containing the following elements: <ul style="list-style-type: none"> <li>– schema string, The schema name for the output data.</li> <li>– table string, The table name for the output data.</li> </ul> </li> </ul>
column_mapping	list optional. A list containing the following elements:

- address1 string, The first address line.
- address2 string, The second address line.
- city string, The city of an address.
- state string, The state of an address.
- zip string, The zip code of an address.
- name string, The full name of the resident at this address. If needed, separate multiple columns with '+', e.g. 'first\_name+last\_name'
- company string, The name of the company located at this address.

use\_default\_column\_mapping      boolean optional. Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.

perform\_ncoa                      boolean optional. Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoa\_credential\_id                integer optional. Credential to use when performing NCOA updates. Required if 'performNcoa' is true.

output\_level                      string optional. The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all.' For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

limiting\_sql                      string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

**Value**

A list containing the following elements:

id                                  integer, The ID for the enhancement.

name                                string, The name of the enhancement job.

type                                string, The type of the enhancement (e.g CASS-NCOA)

createdAt                         string, The time this enhancement was created.

updatedAt                         string, The time the enhancement was last updated.

author                             list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user's name.
- username string, This user's username.
- initials string, This user's initials.
- online boolean, Whether this user is online.

state                                string, The status of the enhancement's last run

schedule                         list, A list containing the following elements:

- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.

	<ul style="list-style-type: none"> <li>• <code>scheduledRunsPerHour</code> integer, Alternative to <code>scheduled minutes</code>, number of times to run per hour.</li> </ul>
<code>parentId</code>	integer, Parent ID that triggers this enhancement.
<code>notifications</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• <code>urls</code> array, URLs to receive a POST request at job completion</li> <li>• <code>successEmailSubject</code> string, Custom subject line for success e-mail.</li> <li>• <code>successEmailBody</code> string, Custom body text for success e-mail, written in Markdown.</li> <li>• <code>successEmailAddresses</code> array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• <code>successEmailFromName</code> string, Name from which success emails are sent; defaults to "Civis."</li> <li>• <code>successEmailReplyTo</code> string, Address for replies to success emails; defaults to the author of the job.</li> <li>• <code>failureEmailAddresses</code> array, Addresses to notify by e-mail when the job fails.</li> <li>• <code>stallWarningMinutes</code> integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• <code>successOn</code> boolean, If success email notifications are on.</li> <li>• <code>failureOn</code> boolean, If failure email notifications are on.</li> </ul>
<code>runningAs</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• <code>id</code> integer, The ID of this user.</li> <li>• <code>name</code> string, This user's name.</li> <li>• <code>username</code> string, This user's username.</li> <li>• <code>initials</code> string, This user's initials.</li> <li>• <code>online</code> boolean, Whether this user is online.</li> </ul>
<code>source</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• <code>databaseTable</code> list . A list containing the following elements: <ul style="list-style-type: none"> <li>– <code>schema</code> string, The schema name of the source table.</li> <li>– <code>table</code> string, The name of the source table.</li> <li>– <code>remoteHostId</code> integer, The ID of the database host for the table.</li> <li>– <code>credentialId</code> integer, The id of the credentials to be used when performing the enhancement.</li> <li>– <code>multipartKey</code> array, The source table primary key.</li> </ul> </li> </ul>
<code>destination</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• <code>databaseTable</code> list . A list containing the following elements: <ul style="list-style-type: none"> <li>– <code>schema</code> string, The schema name for the output data.</li> <li>– <code>table</code> string, The table name for the output data.</li> </ul> </li> </ul>
<code>columnMapping</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• <code>address1</code> string, The first address line.</li> <li>• <code>address2</code> string, The second address line.</li> <li>• <code>city</code> string, The city of an address.</li> </ul>

- state string, The state of an address.
- zip string, The zip code of an address.
- name string, The full name of the resident at this address. If needed, separate multiple columns with '+', e.g. 'first\_name+last\_name'
- company string, The name of the company located at this address.

useDefaultColumnMapping	boolean, Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.
performNcoa	boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.
ncoaCredentialId	integer, Credential to use when performing NCOA updates. Required if 'performNcoa' is true.
outputLevel	string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all.' For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.
limitingSQL	string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
archived	string, The archival status of the requested item(s).

---

enhancements\_patch\_civis\_data\_match

*Update some attributes of this Civis Data Match Enhancement*

---

## Description

Update some attributes of this Civis Data Match Enhancement

## Usage

```
enhancements_patch_civis_data_match(
  id,
  name = NULL,
  schedule = NULL,
  parent_id = NULL,
  notifications = NULL,
  input_field_mapping = NULL,
  input_table = NULL,
  match_target_id = NULL,
  output_table = NULL,
  max_matches = NULL,
  threshold = NULL,
  archived = NULL
)
```

**Arguments**

id	integer required. The ID for the enhancement.
name	string optional. The name of the enhancement job.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parent_id	integer optional. Parent ID that triggers this enhancement.
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
input_field_mapping	list optional. The column mapping for the input table. See <a href="#">/enhancements/field_mapping</a> for list of valid fields.
input_table	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseName string, The Redshift database name for the table.</li> <li>• schema string, The schema name for the table.</li> <li>• table string, The table name.</li> </ul>
match_target_id	integer optional. The ID of the Civis Data match target. See <a href="#">/match_targets</a> for IDs.
output_table	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseName string, The Redshift database name for the table.</li> <li>• schema string, The schema name for the table.</li> <li>• table string, The table name.</li> </ul>

max_matches	integer optional. The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.
threshold	number optional. The score threshold (between 0 and 1). Matches below this threshold will not be returned.
archived	boolean optional. Whether the Civis Data Match Job has been archived.

**Value**

A list containing the following elements:

id	integer, The ID for the enhancement.
name	string, The name of the enhancement job.
type	string, The type of the enhancement (e.g CASS-NCOA)
createdAt	string, The time this enhancement was created.
updatedAt	string, The time the enhancement was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the enhancement's last run
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, Parent ID that triggers this enhancement.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> </ul>

	<ul style="list-style-type: none"> <li>• <code>stallWarningMinutes</code> integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• <code>successOn</code> boolean, If success email notifications are on.</li> <li>• <code>failureOn</code> boolean, If failure email notifications are on.</li> </ul>
<code>runningAs</code>	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• <code>id</code> integer, The ID of this user.</li> <li>• <code>name</code> string, This user's name.</li> <li>• <code>username</code> string, This user's username.</li> <li>• <code>initials</code> string, This user's initials.</li> <li>• <code>online</code> boolean, Whether this user is online.</li> </ul>
<code>inputFieldMapping</code>	<p>list, The column mapping for the input table. See <code>/enhancements/field_mapping</code> for list of valid fields.</p>
<code>inputTable</code>	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• <code>databaseName</code> string, The Redshift database name for the table.</li> <li>• <code>schema</code> string, The schema name for the table.</li> <li>• <code>table</code> string, The table name.</li> </ul>
<code>matchTargetId</code>	<p>integer, The ID of the Civis Data match target. See <code>/match_targets</code> for IDs.</p>
<code>outputTable</code>	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• <code>databaseName</code> string, The Redshift database name for the table.</li> <li>• <code>schema</code> string, The schema name for the table.</li> <li>• <code>table</code> string, The table name.</li> </ul>
<code>maxMatches</code>	<p>integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.</p>
<code>threshold</code>	<p>number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.</p>
<code>archived</code>	<p>boolean, Whether the Civis Data Match Job has been archived.</p>
<code>lastRun</code>	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• <code>id</code> integer,</li> <li>• <code>state</code> string,</li> <li>• <code>createdAt</code> string, The time that the run was queued.</li> <li>• <code>startedAt</code> string, The time that the run started.</li> <li>• <code>finishedAt</code> string, The time that the run completed.</li> <li>• <code>error</code> string, The error message for this run, if present.</li> </ul>



---

 enhancements\_patch\_geocode

*Update some attributes of this Geocode Enhancement*


---

### Description

Update some attributes of this Geocode Enhancement

### Usage

```

enhancements_patch_geocode(
  id,
  name = NULL,
  schedule = NULL,
  parent_id = NULL,
  notifications = NULL,
  remote_host_id = NULL,
  credential_id = NULL,
  source_schema_and_table = NULL,
  multipart_key = NULL,
  limiting_sql = NULL,
  target_schema = NULL,
  target_table = NULL,
  country = NULL,
  provider = NULL,
  output_address = NULL
)

```

### Arguments

id	integer required. The ID for the enhancement.
name	string optional. The name of the enhancement job.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parent_id	integer optional. Parent ID that triggers this enhancement.
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> </ul>

- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

remote_host_id	integer optional. The ID of the remote host.
credential_id	integer optional. The ID of the remote host credential.
source_schema_and_table	string optional. The source database schema and table.
multipart_key	array optional. The source table primary key.
limiting_sql	string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
target_schema	string optional. The output table schema.
target_table	string optional. The output table name.
country	string optional. The country of the addresses to be geocoded; either 'us' or 'ca'.
provider	string optional. The geocoding provider; one of postgis, nominatim, and geocoder_ca.
output_address	boolean optional. Whether to output the parsed address. Only guaranteed for the 'postgis' provider.

## Value

A list containing the following elements:

id	integer, The ID for the enhancement.
name	string, The name of the enhancement job.
type	string, The type of the enhancement (e.g CASS-NCOA)
createdAt	string, The time this enhancement was created.
updatedAt	string, The time the enhancement was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> </ul>

	<ul style="list-style-type: none"> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the enhancement's last run
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, Parent ID that triggers this enhancement.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
remoteHostId	integer, The ID of the remote host.
credentialId	integer, The ID of the remote host credential.
sourceSchemaAndTable	string, The source database schema and table.
multipartKey	array, The source table primary key.
limitingSQL	string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
targetSchema	string, The output table schema.

targetTable	string, The output table name.
country	string, The country of the addresses to be geocoded; either 'us' or 'ca'.
provider	string, The geocoding provider; one of postgis, nominatim, and geocoder_ca.
outputAddress	boolean, Whether to output the parsed address. Only guaranteed for the 'postgis' provider.
archived	string, The archival status of the requested item(s).

---

enhancements\_post\_cass\_ncoa

*Create a CASS/NCOA Enhancement*

---

## Description

Create a CASS/NCOA Enhancement

## Usage

```
enhancements_post_cass_ncoa(
  name,
  source,
  schedule = NULL,
  parent_id = NULL,
  notifications = NULL,
  destination = NULL,
  column_mapping = NULL,
  use_default_column_mapping = NULL,
  perform_ncoa = NULL,
  ncoa_credential_id = NULL,
  output_level = NULL,
  limiting_sql = NULL
)
```

## Arguments

name	string required. The name of the enhancement job.
source	list required. A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseTable list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– schema string, The schema name of the source table.</li> <li>– table string, The name of the source table.</li> <li>– remoteHostId integer, The ID of the database host for the table.</li> <li>– credentialId integer, The id of the credentials to be used when performing the enhancement.</li> <li>– multipartKey array, The source table primary key.</li> </ul> </li> </ul>
schedule	list optional. A list containing the following elements:

	<ul style="list-style-type: none"> <li>• <code>scheduled</code> boolean, If the item is scheduled.</li> <li>• <code>scheduledDays</code> array, Day based on numeric value starting at 0 for Sunday.</li> <li>• <code>scheduledHours</code> array, Hours of the day it is scheduled on.</li> <li>• <code>scheduledMinutes</code> array, Minutes of the day it is scheduled on.</li> <li>• <code>scheduledRunsPerHour</code> integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
<code>parent_id</code>	integer optional. Parent ID that triggers this enhancement.
<code>notifications</code>	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• <code>urls</code> array, URLs to receive a POST request at job completion</li> <li>• <code>successEmailSubject</code> string, Custom subject line for success e-mail.</li> <li>• <code>successEmailBody</code> string, Custom body text for success e-mail, written in Markdown.</li> <li>• <code>successEmailAddresses</code> array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• <code>successEmailFromName</code> string, Name from which success emails are sent; defaults to "Civis."</li> <li>• <code>successEmailReplyTo</code> string, Address for replies to success emails; defaults to the author of the job.</li> <li>• <code>failureEmailAddresses</code> array, Addresses to notify by e-mail when the job fails.</li> <li>• <code>stallWarningMinutes</code> integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• <code>successOn</code> boolean, If success email notifications are on.</li> <li>• <code>failureOn</code> boolean, If failure email notifications are on.</li> </ul>
<code>destination</code>	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• <code>databaseTable</code> list . A list containing the following elements: <ul style="list-style-type: none"> <li>– <code>schema</code> string, The schema name for the output data.</li> <li>– <code>table</code> string, The table name for the output data.</li> </ul> </li> </ul>
<code>column_mapping</code>	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• <code>address1</code> string, The first address line.</li> <li>• <code>address2</code> string, The second address line.</li> <li>• <code>city</code> string, The city of an address.</li> <li>• <code>state</code> string, The state of an address.</li> <li>• <code>zip</code> string, The zip code of an address.</li> <li>• <code>name</code> string, The full name of the resident at this address. If needed, separate multiple columns with '+', e.g. 'first_name+last_name'</li> <li>• <code>company</code> string, The name of the company located at this address.</li> </ul>
<code>use_default_column_mapping</code>	boolean optional. Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.
<code>perform_ncoa</code>	boolean optional. Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoa_credential_id	integer optional. Credential to use when performing NCOA updates. Required if 'performNcoa' is true.
output_level	string optional. The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all'. For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.
limiting_sql	string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

## Value

A list containing the following elements:

id	integer, The ID for the enhancement.
name	string, The name of the enhancement job.
type	string, The type of the enhancement (e.g CASS-NCOA)
createdAt	string, The time this enhancement was created.
updatedAt	string, The time the enhancement was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the enhancement's last run
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, Parent ID that triggers this enhancement.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> </ul>

	<ul style="list-style-type: none"> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseTable list . A list containing the following elements: <ul style="list-style-type: none"> <li>– schema string, The schema name of the source table.</li> <li>– table string, The name of the source table.</li> <li>– remoteHostId integer, The ID of the database host for the table.</li> <li>– credentialId integer, The id of the credentials to be used when performing the enhancement.</li> <li>– multipartKey array, The source table primary key.</li> </ul> </li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseTable list . A list containing the following elements: <ul style="list-style-type: none"> <li>– schema string, The schema name for the output data.</li> <li>– table string, The table name for the output data.</li> </ul> </li> </ul>
columnMapping	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• address1 string, The first address line.</li> <li>• address2 string, The second address line.</li> <li>• city string, The city of an address.</li> <li>• state string, The state of an address.</li> <li>• zip string, The zip code of an address.</li> <li>• name string, The full name of the resident at this address. If needed, separate multiple columns with '+', e.g. 'first_name+last_name'</li> <li>• company string, The name of the company located at this address.</li> </ul>
useDefaultColumnMapping	boolean, Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.
performNcoa	boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.
ncoaCredentialId	integer, Credential to use when performing NCOA updates. Required if 'performNcoa' is true.

outputLevel	string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all'. For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.
limitingSQL	string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
archived	string, The archival status of the requested item(s).

---

enhancements\_post\_cass\_ncoa\_cancel  
*Cancel a run*

---

### Description

Cancel a run

### Usage

enhancements\_post\_cass\_ncoa\_cancel(id)

### Arguments

id integer required. The ID of the job.

### Value

A list containing the following elements:

id	integer, The ID of the run.
state	string, The state of the run, one of 'queued', 'running' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.

---

enhancements\_post\_cass\_ncoa\_runs  
*Start a run*

---

### Description

Start a run

### Usage

enhancements\_post\_cass\_ncoa\_runs(id)



**Arguments**

id integer required. The ID of the cass\_ncoa.

**Value**

A list containing the following elements:

id	integer, The ID of the run.
cassNcoaId	integer, The ID of the cass_ncoa.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

enhancements\_post\_civis\_data\_match

*Create a Civis Data Match Enhancement*

---

**Description**

Create a Civis Data Match Enhancement

**Usage**

```
enhancements_post_civis_data_match(
  name,
  input_field_mapping,
  input_table,
  match_target_id,
  output_table,
  schedule = NULL,
  parent_id = NULL,
  notifications = NULL,
  max_matches = NULL,
  threshold = NULL,
  archived = NULL
)
```

**Arguments**

name	string required. The name of the enhancement job.
input_field_mapping	list required. The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.
input_table	list required. A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseName string, The Redshift database name for the table.</li> <li>• schema string, The schema name for the table.</li> <li>• table string, The table name.</li> </ul>
match_target_id	integer required. The ID of the Civis Data match target. See /match_targets for IDs.
output_table	list required. A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseName string, The Redshift database name for the table.</li> <li>• schema string, The schema name for the table.</li> <li>• table string, The table name.</li> </ul>
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parent_id	integer optional. Parent ID that triggers this enhancement.
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>

max_matches	integer optional. The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.
threshold	number optional. The score threshold (between 0 and 1). Matches below this threshold will not be returned.
archived	boolean optional. Whether the Civis Data Match Job has been archived.

**Value**

A list containing the following elements:

id	integer, The ID for the enhancement.
name	string, The name of the enhancement job.
type	string, The type of the enhancement (e.g CASS-NCOA)
createdAt	string, The time this enhancement was created.
updatedAt	string, The time the enhancement was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the enhancement's last run
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, Parent ID that triggers this enhancement.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> </ul>

	<ul style="list-style-type: none"> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
inputFieldMapping	<p>list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.</p>
inputTable	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• databaseName string, The Redshift database name for the table.</li> <li>• schema string, The schema name for the table.</li> <li>• table string, The table name.</li> </ul>
matchTargetId	<p>integer, The ID of the Civis Data match target. See /match_targets for IDs.</p>
outputTable	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• databaseName string, The Redshift database name for the table.</li> <li>• schema string, The schema name for the table.</li> <li>• table string, The table name.</li> </ul>
maxMatches	<p>integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.</p>
threshold	<p>number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.</p>
archived	<p>boolean, Whether the Civis Data Match Job has been archived.</p>
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>

---

enhancements\_post\_civis\_data\_match\_cancel  
*Cancel a run*

---

**Description**

Cancel a run

**Usage**

```
enhancements_post_civis_data_match_cancel(id)
```

**Arguments**

id                    integer required. The ID of the job.

**Value**

A list containing the following elements:

id                    integer, The ID of the run.  
state                string, The state of the run, one of 'queued', 'running' or 'cancelled'.  
isCancelRequested    boolean, True if run cancel requested, else false.

---

enhancements\_post\_civis\_data\_match\_clone  
*Clone this Civis Data Match Enhancement*

---

**Description**

Clone this Civis Data Match Enhancement

**Usage**

```
enhancements_post_civis_data_match_clone(  
  id,  
  clone_schedule = NULL,  
  clone_triggers = NULL,  
  clone_notifications = NULL  
)
```

**Arguments**

<code>id</code>	integer required. The ID for the enhancement.
<code>clone_schedule</code>	boolean optional. If true, also copy the schedule to the new enhancement.
<code>clone_triggers</code>	boolean optional. If true, also copy the triggers to the new enhancement.
<code>clone_notifications</code>	boolean optional. If true, also copy the notifications to the new enhancement.

**Value**

A list containing the following elements:

<code>id</code>	integer, The ID for the enhancement.
<code>name</code>	string, The name of the enhancement job.
<code>type</code>	string, The type of the enhancement (e.g CASS-NCOA)
<code>createdAt</code>	string, The time this enhancement was created.
<code>updatedAt</code>	string, The time the enhancement was last updated.
<code>author</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li><code>id</code> integer, The ID of this user.</li> <li><code>name</code> string, This user's name.</li> <li><code>username</code> string, This user's username.</li> <li><code>initials</code> string, This user's initials.</li> <li><code>online</code> boolean, Whether this user is online.</li> </ul>
<code>state</code>	string, The status of the enhancement's last run
<code>schedule</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li><code>scheduled</code> boolean, If the item is scheduled.</li> <li><code>scheduledDays</code> array, Day based on numeric value starting at 0 for Sunday.</li> <li><code>scheduledHours</code> array, Hours of the day it is scheduled on.</li> <li><code>scheduledMinutes</code> array, Minutes of the day it is scheduled on.</li> <li><code>scheduledRunsPerHour</code> integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
<code>parentId</code>	integer, Parent ID that triggers this enhancement.
<code>notifications</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li><code>urls</code> array, URLs to receive a POST request at job completion</li> <li><code>successEmailSubject</code> string, Custom subject line for success e-mail.</li> <li><code>successEmailBody</code> string, Custom body text for success e-mail, written in Markdown.</li> <li><code>successEmailAddresses</code> array, Addresses to notify by e-mail when the job completes successfully.</li> <li><code>successEmailFromName</code> string, Name from which success emails are sent; defaults to "Civis."</li> <li><code>successEmailReplyTo</code> string, Address for replies to success emails; defaults to the author of the job.</li> </ul>

	<ul style="list-style-type: none"><li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li><li>• successOn boolean, If success email notifications are on.</li><li>• failureOn boolean, If failure email notifications are on.</li></ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
inputFieldMapping	list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.
inputTable	list, A list containing the following elements: <ul style="list-style-type: none"><li>• databaseName string, The Redshift database name for the table.</li><li>• schema string, The schema name for the table.</li><li>• table string, The table name.</li></ul>
matchTargetId	integer, The ID of the Civis Data match target. See /match_targets for IDs.
outputTable	list, A list containing the following elements: <ul style="list-style-type: none"><li>• databaseName string, The Redshift database name for the table.</li><li>• schema string, The schema name for the table.</li><li>• table string, The table name.</li></ul>
maxMatches	integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.
threshold	number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.
archived	boolean, Whether the Civis Data Match Job has been archived.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer,</li><li>• state string,</li><li>• createdAt string, The time that the run was queued.</li><li>• startedAt string, The time that the run started.</li><li>• finishedAt string, The time that the run completed.</li><li>• error string, The error message for this run, if present.</li></ul>

---

enhancements\_post\_civis\_data\_match\_runs

*Start a run*

---

### Description

Start a run

### Usage

enhancements\_post\_civis\_data\_match\_runs(id)

### Arguments

id                    integer required. The ID of the civis\_data\_match.

### Value

A list containing the following elements:

id	integer, The ID of the run.
civisDataMatchId	integer, The ID of the civis_data_match.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

enhancements\_post\_geocode

*Create a Geocode Enhancement*

---

### Description

Create a Geocode Enhancement



**Usage**

```

enhancements_post_geocode(
  name,
  remote_host_id,
  credential_id,
  source_schema_and_table,
  schedule = NULL,
  parent_id = NULL,
  notifications = NULL,
  multipart_key = NULL,
  limiting_sql = NULL,
  target_schema = NULL,
  target_table = NULL,
  country = NULL,
  provider = NULL,
  output_address = NULL
)

```

**Arguments**

name	string required. The name of the enhancement job.
remote_host_id	integer required. The ID of the remote host.
credential_id	integer required. The ID of the remote host credential.
source_schema_and_table	string required. The source database schema and table.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parent_id	integer optional. Parent ID that triggers this enhancement.
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> </ul>

	<ul style="list-style-type: none"> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
multipart_key	array optional. The source table primary key.
limiting_sql	string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
target_schema	string optional. The output table schema.
target_table	string optional. The output table name.
country	string optional. The country of the addresses to be geocoded; either 'us' or 'ca'.
provider	string optional. The geocoding provider; one of postgis, nominatim, and geocoder_ca.
output_address	boolean optional. Whether to output the parsed address. Only guaranteed for the 'postgis' provider.

### Value

A list containing the following elements:

id	integer, The ID for the enhancement.
name	string, The name of the enhancement job.
type	string, The type of the enhancement (e.g CASS-NCOA)
createdAt	string, The time this enhancement was created.
updatedAt	string, The time the enhancement was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the enhancement's last run
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, Parent ID that triggers this enhancement.
notifications	list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user's name.
- username string, This user's username.
- initials string, This user's initials.
- online boolean, Whether this user is online.

remoteHostId integer, The ID of the remote host.

credentialId integer, The ID of the remote host credential.

sourceSchemaAndTable string, The source database schema and table.

multipartKey array, The source table primary key.

limitingSQL string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

targetSchema string, The output table schema.

targetTable string, The output table name.

country string, The country of the addresses to be geocoded; either 'us' or 'ca'.

provider string, The geocoding provider; one of postgis, nominatim, and geocoder\_ca.

outputAddress boolean, Whether to output the parsed address. Only guaranteed for the 'postgis' provider.

archived string, The archival status of the requested item(s).

enhancements\_post\_geocode\_cancel  
*Cancel a run*

---

**Description**

Cancel a run

**Usage**

enhancements\_post\_geocode\_cancel(id)

**Arguments**

id                    integer required. The ID of the job.

**Value**

A list containing the following elements:

id                    integer, The ID of the run.  
state                string, The state of the run, one of 'queued', 'running' or 'cancelled'.  
isCancelRequested    boolean, True if run cancel requested, else false.

---

enhancements\_post\_geocode\_runs  
*Start a run*

---

**Description**

Start a run

**Usage**

enhancements\_post\_geocode\_runs(id)

**Arguments**

id                    integer required. The ID of the geocode.

**Value**

A list containing the following elements:

id	integer, The ID of the run.
geocodeId	integer, The ID of the geocode.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

enhancements\_put\_cass\_ncoa

*Replace all attributes of this CASS/NCOA Enhancement*

---

**Description**

Replace all attributes of this CASS/NCOA Enhancement

**Usage**

```
enhancements_put_cass_ncoa(
  id,
  name,
  source,
  schedule = NULL,
  parent_id = NULL,
  notifications = NULL,
  destination = NULL,
  column_mapping = NULL,
  use_default_column_mapping = NULL,
  perform_ncoa = NULL,
  ncoa_credential_id = NULL,
  output_level = NULL,
  limiting_sql = NULL
)
```

**Arguments**

id	integer required. The ID for the enhancement.
name	string required. The name of the enhancement job.
source	list required. A list containing the following elements:

- databaseTable list . A list containing the following elements:
    - schema string, The schema name of the source table.
    - table string, The name of the source table.
    - remoteHostId integer, The ID of the database host for the table.
    - credentialId integer, The id of the credentials to be used when performing the enhancement.
    - multipartKey array, The source table primary key.
- schedule list optional. A list containing the following elements:
- scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
- parent\_id integer optional. Parent ID that triggers this enhancement.
- notifications list optional. A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  - successOn boolean, If success email notifications are on.
  - failureOn boolean, If failure email notifications are on.
- destination list optional. A list containing the following elements:
- databaseTable list . A list containing the following elements:
    - schema string, The schema name for the output data.
    - table string, The table name for the output data.
- column\_mapping list optional. A list containing the following elements:
- address1 string, The first address line.
  - address2 string, The second address line.
  - city string, The city of an address.
  - state string, The state of an address.
  - zip string, The zip code of an address.

- name string, The full name of the resident at this address. If needed, separate multiple columns with '+', e.g. 'first\_name+last\_name'
- company string, The name of the company located at this address.

use\_default\_column\_mapping  
boolean optional. Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.

perform\_ncoa  
boolean optional. Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoa\_credential\_id  
integer optional. Credential to use when performing NCOA updates. Required if 'performNcoa' is true.

output\_level  
string optional. The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all'. For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

limiting\_sql  
string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

**Value**

A list containing the following elements:

id  
integer, The ID for the enhancement.

name  
string, The name of the enhancement job.

type  
string, The type of the enhancement (e.g CASS-NCOA)

createdAt  
string, The time this enhancement was created.

updatedAt  
string, The time the enhancement was last updated.

author  
list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user's name.
- username string, This user's username.
- initials string, This user's initials.
- online boolean, Whether this user is online.

state  
string, The status of the enhancement's last run

schedule  
list, A list containing the following elements:

- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parentId  
integer, Parent ID that triggers this enhancement.

notifications  
list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion

- successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  - successOn boolean, If success email notifications are on.
  - failureOn boolean, If failure email notifications are on.
- runningAs list, A list containing the following elements:
- id integer, The ID of this user.
  - name string, This user's name.
  - username string, This user's username.
  - initials string, This user's initials.
  - online boolean, Whether this user is online.
- source list, A list containing the following elements:
- databaseTable list . A list containing the following elements:
    - schema string, The schema name of the source table.
    - table string, The name of the source table.
    - remoteHostId integer, The ID of the database host for the table.
    - credentialId integer, The id of the credentials to be used when performing the enhancement.
    - multipartKey array, The source table primary key.
- destination list, A list containing the following elements:
- databaseTable list . A list containing the following elements:
    - schema string, The schema name for the output data.
    - table string, The table name for the output data.
- columnMapping list, A list containing the following elements:
- address1 string, The first address line.
  - address2 string, The second address line.
  - city string, The city of an address.
  - state string, The state of an address.
  - zip string, The zip code of an address.
  - name string, The full name of the resident at this address. If needed, separate multiple columns with '+', e.g. 'first\_name+last\_name'
  - company string, The name of the company located at this address.



useDefaultColumnMapping	boolean, Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.
performNcoa	boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.
ncoaCredentialId	integer, Credential to use when performing NCOA updates. Required if 'performNcoa' is true.
outputLevel	string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all'. For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.
limitingSQL	string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
archived	string, The archival status of the requested item(s).

---

enhancements\_put\_cass\_ncoa\_archive

*Update the archive status of this object*

---

## Description

Update the archive status of this object

## Usage

enhancements\_put\_cass\_ncoa\_archive(id, status)

## Arguments

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

## Value

A list containing the following elements:

id	integer, The ID for the enhancement.
name	string, The name of the enhancement job.
type	string, The type of the enhancement (e.g CASS-NCOA)
createdAt	string, The time this enhancement was created.
updatedAt	string, The time the enhancement was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>id integer, The ID of this user.</li> <li>name string, This user's name.</li> </ul>

	<ul style="list-style-type: none"> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the enhancement's last run
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, Parent ID that triggers this enhancement.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseTable list . A list containing the following elements: <ul style="list-style-type: none"> <li>– schema string, The schema name of the source table.</li> <li>– table string, The name of the source table.</li> <li>– remoteHostId integer, The ID of the database host for the table.</li> <li>– credentialId integer, The id of the credentials to be used when performing the enhancement.</li> </ul> </li> </ul>

	– multipartKey array, The source table primary key.
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseTable list . A list containing the following elements: <ul style="list-style-type: none"> <li>– schema string, The schema name for the output data.</li> <li>– table string, The table name for the output data.</li> </ul> </li> </ul>
columnMapping	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• address1 string, The first address line.</li> <li>• address2 string, The second address line.</li> <li>• city string, The city of an address.</li> <li>• state string, The state of an address.</li> <li>• zip string, The zip code of an address.</li> <li>• name string, The full name of the resident at this address. If needed, separate multiple columns with '+', e.g. 'first_name+last_name'</li> <li>• company string, The name of the company located at this address.</li> </ul>
useDefaultColumnMapping	boolean, Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.
performNcoa	boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.
ncoaCredentialId	integer, Credential to use when performing NCOA updates. Required if 'performNcoa' is true.
outputLevel	string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all.' For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.
limitingSQL	string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
archived	string, The archival status of the requested item(s).

---

enhancements\_put\_cass\_ncoa\_projects

*Add a CASS/NCOA Enhancement to a project*

---

### **Description**

Add a CASS/NCOA Enhancement to a project

### **Usage**

enhancements\_put\_cass\_ncoa\_projects(id, project\_id)

**Arguments**

id	integer required. The ID of the CASS/NCOA Enhancement.
project_id	integer required. The ID of the project.

**Value**

An empty HTTP response

---

enhancements\_put\_cass\_ncoa\_shares\_groups  
*Set the permissions groups has on this object*

---

**Description**

Set the permissions groups has on this object

**Usage**

```
enhancements_put_cass_ncoa_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements:

	<ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

enhancements\_put\_cass\_ncoa\_shares\_users

*Set the permissions users have on this object*

---

## Description

Set the permissions users have on this object

## Usage

```
enhancements_put_cass_ncoa_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

## Arguments

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

enhancements\_put\_civis\_data\_match

*Replace all attributes of this Civis Data Match Enhancement*

---

**Description**

Replace all attributes of this Civis Data Match Enhancement

**Usage**

```
enhancements_put_civis_data_match(
  id,
  name,
  input_field_mapping,
  input_table,
  match_target_id,
  output_table,
  schedule = NULL,
  parent_id = NULL,
  notifications = NULL,
  max_matches = NULL,
  threshold = NULL,
  archived = NULL
)
```

**Arguments**

id	integer required. The ID for the enhancement.
name	string required. The name of the enhancement job.
input_field_mapping	list required. The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.
input_table	list required. A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseName string, The Redshift database name for the table.</li> <li>• schema string, The schema name for the table.</li> <li>• table string, The table name.</li> </ul>
match_target_id	integer required. The ID of the Civis Data match target. See /match_targets for IDs.
output_table	list required. A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseName string, The Redshift database name for the table.</li> <li>• schema string, The schema name for the table.</li> <li>• table string, The table name.</li> </ul>
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parent_id	integer optional. Parent ID that triggers this enhancement.
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>

max_matches	integer optional. The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.
threshold	number optional. The score threshold (between 0 and 1). Matches below this threshold will not be returned.
archived	boolean optional. Whether the Civis Data Match Job has been archived.

**Value**

A list containing the following elements:

id	integer, The ID for the enhancement.
name	string, The name of the enhancement job.
type	string, The type of the enhancement (e.g CASS-NCOA)
createdAt	string, The time this enhancement was created.
updatedAt	string, The time the enhancement was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the enhancement's last run
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, Parent ID that triggers this enhancement.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> </ul>



	<ul style="list-style-type: none"><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li><li>• successOn boolean, If success email notifications are on.</li><li>• failureOn boolean, If failure email notifications are on.</li></ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
inputFieldMapping	list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.
inputTable	list, A list containing the following elements: <ul style="list-style-type: none"><li>• databaseName string, The Redshift database name for the table.</li><li>• schema string, The schema name for the table.</li><li>• table string, The table name.</li></ul>
matchTargetId	integer, The ID of the Civis Data match target. See /match_targets for IDs.
outputTable	list, A list containing the following elements: <ul style="list-style-type: none"><li>• databaseName string, The Redshift database name for the table.</li><li>• schema string, The schema name for the table.</li><li>• table string, The table name.</li></ul>
maxMatches	integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.
threshold	number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.
archived	boolean, Whether the Civis Data Match Job has been archived.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer,</li><li>• state string,</li><li>• createdAt string, The time that the run was queued.</li><li>• startedAt string, The time that the run started.</li><li>• finishedAt string, The time that the run completed.</li><li>• error string, The error message for this run, if present.</li></ul>

---

 enhancements\_put\_civis\_data\_match\_archive

*Update the archive status of this object*


---

### Description

Update the archive status of this object

### Usage

```
enhancements_put_civis_data_match_archive(id, status)
```

### Arguments

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

### Value

A list containing the following elements:

id	integer, The ID for the enhancement.
name	string, The name of the enhancement job.
type	string, The type of the enhancement (e.g CASS-NCOA)
createdAt	string, The time this enhancement was created.
updatedAt	string, The time the enhancement was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the enhancement's last run
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, Parent ID that triggers this enhancement.
notifications	list, A list containing the following elements:

	<ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
inputFieldMapping	list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.
inputTable	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseName string, The Redshift database name for the table.</li> <li>• schema string, The schema name for the table.</li> <li>• table string, The table name.</li> </ul>
matchTargetId	integer, The ID of the Civis Data match target. See /match_targets for IDs.
outputTable	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• databaseName string, The Redshift database name for the table.</li> <li>• schema string, The schema name for the table.</li> <li>• table string, The table name.</li> </ul>
maxMatches	integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.
threshold	number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.
archived	boolean, Whether the Civis Data Match Job has been archived.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> </ul>

- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

---

enhancements\_put\_civis\_data\_match\_projects

*Add a Civis Data Match Enhancement to a project*

---

### Description

Add a Civis Data Match Enhancement to a project

### Usage

```
enhancements_put_civis_data_match_projects(id, project_id)
```

### Arguments

id	integer required. The ID of the Civis Data Match Enhancement.
project_id	integer required. The ID of the project.

### Value

An empty HTTP response

---

enhancements\_put\_civis\_data\_match\_shares\_groups

*Set the permissions groups has on this object*

---

### Description

Set the permissions groups has on this object

### Usage

```
enhancements_put_civis_data_match_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

enhancements\_put\_civis\_data\_match\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
enhancements_put_civis_data_match_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

enhancements\_put\_geocode

*Replace all attributes of this Geocode Enhancement*

---

**Description**

Replace all attributes of this Geocode Enhancement

**Usage**

```

enhancements_put_geocode(
  id,
  name,
  remote_host_id,
  credential_id,
  source_schema_and_table,
  schedule = NULL,
  parent_id = NULL,
  notifications = NULL,
  multipart_key = NULL,
  limiting_sql = NULL,
  target_schema = NULL,
  target_table = NULL,
  country = NULL,
  provider = NULL,
  output_address = NULL
)

```

**Arguments**

<code>id</code>	integer required. The ID for the enhancement.
<code>name</code>	string required. The name of the enhancement job.
<code>remote_host_id</code>	integer required. The ID of the remote host.
<code>credential_id</code>	integer required. The ID of the remote host credential.
<code>source_schema_and_table</code>	string required. The source database schema and table.
<code>schedule</code>	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• <code>scheduled</code> boolean, If the item is scheduled.</li> <li>• <code>scheduledDays</code> array, Day based on numeric value starting at 0 for Sunday.</li> <li>• <code>scheduledHours</code> array, Hours of the day it is scheduled on.</li> <li>• <code>scheduledMinutes</code> array, Minutes of the day it is scheduled on.</li> <li>• <code>scheduledRunsPerHour</code> integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
<code>parent_id</code>	integer optional. Parent ID that triggers this enhancement.
<code>notifications</code>	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• <code>urls</code> array, URLs to receive a POST request at job completion</li> <li>• <code>successEmailSubject</code> string, Custom subject line for success e-mail.</li> <li>• <code>successEmailBody</code> string, Custom body text for success e-mail, written in Markdown.</li> <li>• <code>successEmailAddresses</code> array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• <code>successEmailFromName</code> string, Name from which success emails are sent; defaults to "Civis."</li> </ul>

	<ul style="list-style-type: none"> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
multipart_key	array optional. The source table primary key.
limiting_sql	string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
target_schema	string optional. The output table schema.
target_table	string optional. The output table name.
country	string optional. The country of the addresses to be geocoded; either 'us' or 'ca'.
provider	string optional. The geocoding provider; one of postgis, nominatim, and geocoder_ca.
output_address	boolean optional. Whether to output the parsed address. Only guaranteed for the 'postgis' provider.

### Value

A list containing the following elements:

id	integer, The ID for the enhancement.
name	string, The name of the enhancement job.
type	string, The type of the enhancement (e.g CASS-NCOA)
createdAt	string, The time this enhancement was created.
updatedAt	string, The time the enhancement was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the enhancement's last run
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, Parent ID that triggers this enhancement.



notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
remoteHostId	integer, The ID of the remote host.
credentialId	integer, The ID of the remote host credential.
sourceSchemaAndTable	string, The source database schema and table.
multipartKey	array, The source table primary key.
limitingSQL	string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
targetSchema	string, The output table schema.
targetTable	string, The output table name.
country	string, The country of the addresses to be geocoded; either 'us' or 'ca'.
provider	string, The geocoding provider; one of postgis, nominatim, and geocoder_ca.
outputAddress	boolean, Whether to output the parsed address. Only guaranteed for the 'postgis' provider.
archived	string, The archival status of the requested item(s).

---

 enhancements\_put\_geocode\_archive

*Update the archive status of this object*


---

### Description

Update the archive status of this object

### Usage

```
enhancements_put_geocode_archive(id, status)
```

### Arguments

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

### Value

A list containing the following elements:

id	integer, The ID for the enhancement.
name	string, The name of the enhancement job.
type	string, The type of the enhancement (e.g CASS-NCOA)
createdAt	string, The time this enhancement was created.
updatedAt	string, The time the enhancement was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the enhancement's last run
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, Parent ID that triggers this enhancement.
notifications	list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user's name.
- username string, This user's username.
- initials string, This user's initials.
- online boolean, Whether this user is online.

remoteHostId integer, The ID of the remote host.

credentialId integer, The ID of the remote host credential.

sourceSchemaAndTable string, The source database schema and table.

multipartKey array, The source table primary key.

limitingSQL string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

targetSchema string, The output table schema.

targetTable string, The output table name.

country string, The country of the addresses to be geocoded; either 'us' or 'ca'.

provider string, The geocoding provider; one of postgis, nominatim, and geocoder\_ca.

outputAddress boolean, Whether to output the parsed address. Only guaranteed for the 'postgis' provider.

archived string, The archival status of the requested item(s).

---

enhancements\_put\_geocode\_projects

*Add a Geocode Enhancement to a project*

---

### Description

Add a Geocode Enhancement to a project

### Usage

```
enhancements_put_geocode_projects(id, project_id)
```

### Arguments

id	integer required. The ID of the Geocode Enhancement.
project_id	integer required. The ID of the project.

### Value

An empty HTTP response

---

enhancements\_put\_geocode\_shares\_groups

*Set the permissions groups has on this object*

---

### Description

Set the permissions groups has on this object

### Usage

```
enhancements_put_geocode_shares_groups(  
  id,  
  group_ids,  
  permission_level,  
  share_email_body = NULL,  
  send_shared_email = NULL  
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

enhancements\_put\_geocode\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
enhancements_put_geocode_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

exports\_get\_files\_csv *Get a CSV Export*

---

**Description**

Get a CSV Export

**Usage**

```
exports_get_files_csv(id)
```

**Arguments**

id	integer required.
----	-------------------

**Value**

A list containing the following elements:

id	integer, The ID of this Csv Export job.
name	string, The name of this Csv Export job.
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• sql string, The SQL query for this Csv Export job</li> <li>• remoteHostId integer, The ID of the destination database host.</li> <li>• credentialId integer, The ID of the credentials for the destination database.</li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• filenamePrefix string, The prefix of the name of the file returned to the user.</li> <li>• storagePath list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– filePath string, The path within the bucket where the exported file will be saved. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"</li> <li>– storageHostId integer, The ID of the destination storage host.</li> <li>– credentialId integer, The ID of the credentials for the destination storage host.</li> <li>– existingFiles string, Notifies the job of what to do in the case that the exported file already exists at the provided path. One of: fail, append, overwrite. Default: fail. If "append" is specified, the new file will always be added to the provided path. If "overwrite" is specified all existing files at the provided path will be deleted and the new file will be added. By default, or if "fail" is specified, the export will fail if a file exists at the provided path.</li> </ul> </li> </ul>
includeHeader	boolean, A boolean value indicating whether or not the header should be included. Defaults to true.
compression	string, The compression of the output file. Valid arguments are "gzip" and "none". Defaults to "gzip".
columnDelimiter	string, The column delimiter for the output file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
hidden	boolean, A boolean value indicating whether or not this request should be hidden. Defaults to false.
forceMultifile	boolean, Whether or not the csv should be split into multiple files. Default: false
maxFileSize	integer, The max file size, in MB, created files will be. Only available when force_multifile is true.

---

 exports\_list
 

---

*List***Description**

List

**Usage**

```
exports_list(
  type = NULL,
  author = NULL,
  status = NULL,
  hidden = NULL,
  archived = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

type	string optional. If specified, return exports of these types. It accepts a comma-separated list, possible values are 'database' and 'gdoc'.
author	string optional. If specified, return exports from this author. It accepts a comma-separated list of author ids.
status	string optional. If specified, returns export with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
archived	string optional. The archival status of the requested item(s).
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at, last_run.updated_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.



**Value**

An array containing the following fields:

id	integer, The ID for this export.
name	string, The name of this export.
type	string, The type of export.
createdAt	string, The creation time for this export.
updatedAt	string, The last modification time for this export.
state	string,
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>

---

exports\_patch\_files\_csv

*Update some attributes of this CSV Export*

---

**Description**

Update some attributes of this CSV Export

**Usage**

```
exports_patch_files_csv(
  id,
  name = NULL,
  source = NULL,
  destination = NULL,
  include_header = NULL,
  compression = NULL,
  column_delimiter = NULL,
  hidden = NULL,
  force_multifile = NULL,
  max_file_size = NULL
)
```

**Arguments**

id	integer required. The ID of this Csv Export job.
name	string optional. The name of this Csv Export job.
source	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• sql string, The SQL query for this Csv Export job</li> <li>• remoteHostId integer, The ID of the destination database host.</li> <li>• credentialId integer, The ID of the credentials for the destination database.</li> </ul>
destination	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• filenamePrefix string, The prefix of the name of the file returned to the user.</li> <li>• storagePath list . A list containing the following elements: <ul style="list-style-type: none"> <li>– filePath string, The path within the bucket where the exported file will be saved. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"</li> <li>– storageHostId integer, The ID of the destination storage host.</li> <li>– credentialId integer, The ID of the credentials for the destination storage host.</li> <li>– existingFiles string, Notifies the job of what to do in the case that the exported file already exists at the provided path. One of: fail, append, overwrite. Default: fail. If "append" is specified, the new file will always be added to the provided path. If "overwrite" is specified all existing files at the provided path will be deleted and the new file will be added. By default, or if "fail" is specified, the export will fail if a file exists at the provided path.</li> </ul> </li> </ul>
include_header	boolean optional. A boolean value indicating whether or not the header should be included. Defaults to true.
compression	string optional. The compression of the output file. Valid arguments are "gzip" and "none". Defaults to "gzip".
column_delimiter	string optional. The column delimiter for the output file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
hidden	boolean optional. A boolean value indicating whether or not this request should be hidden. Defaults to false.
force_multifile	boolean optional. Whether or not the csv should be split into multiple files. Default: false
max_file_size	integer optional. The max file size, in MB, created files will be. Only available when force_multifile is true.

**Value**

A list containing the following elements:

id	integer, The ID of this Csv Export job.
name	string, The name of this Csv Export job.

source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• sql string, The SQL query for this Csv Export job</li> <li>• remoteHostId integer, The ID of the destination database host.</li> <li>• credentialId integer, The ID of the credentials for the destination database.</li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• filenamePrefix string, The prefix of the name of the file returned to the user.</li> <li>• storagePath list . A list containing the following elements: <ul style="list-style-type: none"> <li>– filePath string, The path within the bucket where the exported file will be saved. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"</li> <li>– storageHostId integer, The ID of the destination storage host.</li> <li>– credentialId integer, The ID of the credentials for the destination storage host.</li> <li>– existingFiles string, Notifies the job of what to do in the case that the exported file already exists at the provided path. One of: fail, append, overwrite. Default: fail. If "append" is specified, the new file will always be added to the provided path. If "overwrite" is specified all existing files at the provided path will be deleted and the new file will be added. By default, or if "fail" is specified, the export will fail if a file exists at the provided path.</li> </ul> </li> </ul>
includeHeader	boolean, A boolean value indicating whether or not the header should be included. Defaults to true.
compression	string, The compression of the output file. Valid arguments are "gzip" and "none". Defaults to "gzip".
columnDelimiter	string, The column delimiter for the output file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
hidden	boolean, A boolean value indicating whether or not this request should be hidden. Defaults to false.
forceMultifile	boolean, Whether or not the csv should be split into multiple files. Default: false
maxFileSize	integer, The max file size, in MB, created files will be. Only available when force_multifile is true.

---

exports\_post\_files\_csv

*Create a CSV Export*

---

## Description

Create a CSV Export

**Usage**

```
exports_post_files_csv(
  source,
  destination,
  name = NULL,
  include_header = NULL,
  compression = NULL,
  column_delimiter = NULL,
  hidden = NULL,
  force_multifile = NULL,
  max_file_size = NULL
)
```

**Arguments**

source	list required. A list containing the following elements: <ul style="list-style-type: none"> <li>• sql string, The SQL query for this Csv Export job</li> <li>• remoteHostId integer, The ID of the destination database host.</li> <li>• credentialId integer, The ID of the credentials for the destination database.</li> </ul>
destination	list required. A list containing the following elements: <ul style="list-style-type: none"> <li>• filenamePrefix string, The prefix of the name of the file returned to the user.</li> <li>• storagePath list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– filePath string, The path within the bucket where the exported file will be saved. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"</li> <li>– storageHostId integer, The ID of the destination storage host.</li> <li>– credentialId integer, The ID of the credentials for the destination storage host.</li> <li>– existingFiles string, Notifies the job of what to do in the case that the exported file already exists at the provided path. One of: fail, append, overwrite. Default: fail. If "append" is specified, the new file will always be added to the provided path. If "overwrite" is specified all existing files at the provided path will be deleted and the new file will be added. By default, or if "fail" is specified, the export will fail if a file exists at the provided path.</li> </ul> </li> </ul>
name	string optional. The name of this Csv Export job.
include_header	boolean optional. A boolean value indicating whether or not the header should be included. Defaults to true.
compression	string optional. The compression of the output file. Valid arguments are "gzip" and "none". Defaults to "gzip".
column_delimiter	string optional. The column delimiter for the output file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
hidden	boolean optional. A boolean value indicating whether or not this request should be hidden. Defaults to false.

force_multifile	boolean optional. Whether or not the csv should be split into multiple files. Default: false
max_file_size	integer optional. The max file size, in MB, created files will be. Only available when force_multifile is true.

**Value**

A list containing the following elements:

id	integer, The ID of this Csv Export job.
name	string, The name of this Csv Export job.
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• sql string, The SQL query for this Csv Export job</li> <li>• remoteHostId integer, The ID of the destination database host.</li> <li>• credentialId integer, The ID of the credentials for the destination database.</li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• filenamePrefix string, The prefix of the name of the file returned to the user.</li> <li>• storagePath list . A list containing the following elements: <ul style="list-style-type: none"> <li>– filePath string, The path within the bucket where the exported file will be saved. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"</li> <li>– storageHostId integer, The ID of the destination storage host.</li> <li>– credentialId integer, The ID of the credentials for the destination storage host.</li> <li>– existingFiles string, Notifies the job of what to do in the case that the exported file already exists at the provided path. One of: fail, append, overwrite. Default: fail. If "append" is specified, the new file will always be added to the provided path. If "overwrite" is specified all existing files at the provided path will be deleted and the new file will be added. By default, or if "fail" is specified, the export will fail if a file exists at the provided path.</li> </ul> </li> </ul>
includeHeader	boolean, A boolean value indicating whether or not the header should be included. Defaults to true.
compression	string, The compression of the output file. Valid arguments are "gzip" and "none". Defaults to "gzip".
columnDelimiter	string, The column delimiter for the output file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
hidden	boolean, A boolean value indicating whether or not this request should be hidden. Defaults to false.
forceMultifile	boolean, Whether or not the csv should be split into multiple files. Default: false
maxFileSize	integer, The max file size, in MB, created files will be. Only available when force_multifile is true.

---

exports\_put\_files\_csv *Replace all attributes of this CSV Export*

---

### Description

Replace all attributes of this CSV Export

### Usage

```
exports_put_files_csv(
    id,
    source,
    destination,
    name = NULL,
    include_header = NULL,
    compression = NULL,
    column_delimiter = NULL,
    hidden = NULL,
    force_multifile = NULL,
    max_file_size = NULL
)
```

### Arguments

id	integer required. The ID of this Csv Export job.
source	list required. A list containing the following elements: <ul style="list-style-type: none"> <li>• sql string, The SQL query for this Csv Export job</li> <li>• remoteHostId integer, The ID of the destination database host.</li> <li>• credentialId integer, The ID of the credentials for the destination database.</li> </ul>
destination	list required. A list containing the following elements: <ul style="list-style-type: none"> <li>• filenamePrefix string, The prefix of the name of the file returned to the user.</li> <li>• storagePath list . A list containing the following elements: <ul style="list-style-type: none"> <li>– filePath string, The path within the bucket where the exported file will be saved. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"</li> <li>– storageHostId integer, The ID of the destination storage host.</li> <li>– credentialId integer, The ID of the credentials for the destination storage host.</li> <li>– existingFiles string, Notifies the job of what to do in the case that the exported file already exists at the provided path. One of: fail, append, overwrite. Default: fail. If "append" is specified, the new file will always be added to the provided path. If "overwrite" is specified all existing files at the provided path will be deleted and the new file will be added. By default, or if "fail" is specified, the export will fail if a file exists at the provided path.</li> </ul> </li> </ul>

name	string optional. The name of this Csv Export job.
include_header	boolean optional. A boolean value indicating whether or not the header should be included. Defaults to true.
compression	string optional. The compression of the output file. Valid arguments are "gzip" and "none". Defaults to "gzip".
column_delimiter	string optional. The column delimiter for the output file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
hidden	boolean optional. A boolean value indicating whether or not this request should be hidden. Defaults to false.
force_multifile	boolean optional. Whether or not the csv should be split into multiple files. Default: false
max_file_size	integer optional. The max file size, in MB, created files will be. Only available when force_multifile is true.

### Value

A list containing the following elements:

id	integer, The ID of this Csv Export job.
name	string, The name of this Csv Export job.
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• sql string, The SQL query for this Csv Export job</li> <li>• remoteHostId integer, The ID of the destination database host.</li> <li>• credentialId integer, The ID of the credentials for the destination database.</li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• filenamePrefix string, The prefix of the name of the file returned to the user.</li> <li>• storagePath list . A list containing the following elements: <ul style="list-style-type: none"> <li>– filePath string, The path within the bucket where the exported file will be saved. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"</li> <li>– storageHostId integer, The ID of the destination storage host.</li> <li>– credentialId integer, The ID of the credentials for the destination storage host.</li> <li>– existingFiles string, Notifies the job of what to do in the case that the exported file already exists at the provided path. One of: fail, append, overwrite. Default: fail. If "append" is specified, the new file will always be added to the provided path. If "overwrite" is specified all existing files at the provided path will be deleted and the new file will be added. By default, or if "fail" is specified, the export will fail if a file exists at the provided path.</li> </ul> </li> </ul>
includeHeader	boolean, A boolean value indicating whether or not the header should be included. Defaults to true.

compression	string, The compression of the output file. Valid arguments are "gzip" and "none". Defaults to "gzip".
columnDelimiter	string, The column delimiter for the output file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
hidden	boolean, A boolean value indicating whether or not this request should be hidden. Defaults to false.
forceMultifile	boolean, Whether or not the csv should be split into multiple files. Default: false
maxFileSize	integer, The max file size, in MB, created files will be. Only available when force_multifile is true.

---

exports\_put\_files\_csv\_archive

*Update the archive status of this object*

---

## Description

Update the archive status of this object

## Usage

exports\_put\_files\_csv\_archive(id, status)

## Arguments

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

## Value

A list containing the following elements:

id	integer, The ID of this Csv Export job.
name	string, The name of this Csv Export job.
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• sql string, The SQL query for this Csv Export job</li> <li>• remoteHostId integer, The ID of the destination database host.</li> <li>• credentialId integer, The ID of the credentials for the destination database.</li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• filenamePrefix string, The prefix of the name of the file returned to the user.</li> <li>• storagePath list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– filePath string, The path within the bucket where the exported file will be saved. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"</li> </ul> </li> </ul>



- storageHostId integer, The ID of the destination storage host.
- credentialId integer, The ID of the credentials for the destination storage host.
- existingFiles string, Notifies the job of what to do in the case that the exported file already exists at the provided path. One of: fail, append, overwrite. Default: fail. If "append" is specified, the new file will always be added to the provided path. If "overwrite" is specified all existing files at the provided path will be deleted and the new file will be added. By default, or if "fail" is specified, the export will fail if a file exists at the provided path.

includeHeader	boolean, A boolean value indicating whether or not the header should be included. Defaults to true.
compression	string, The compression of the output file. Valid arguments are "gzip" and "none". Defaults to "gzip".
columnDelimiter	string, The column delimiter for the output file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
hidden	boolean, A boolean value indicating whether or not this request should be hidden. Defaults to false.
forceMultifile	boolean, Whether or not the csv should be split into multiple files. Default: false
maxFileSize	integer, The max file size, in MB, created files will be. Only available when force_multifile is true.

---

feature\_flags\_delete\_groups

*Deactivate a feature for a group*

---

## Description

Deactivate a feature for a group

## Usage

```
feature_flags_delete_groups(flag_name, group_id)
```

## Arguments

flag_name	string required. The feature flag name.
group_id	integer required. Group ID.

## Value

An empty HTTP response

---

feature\_flags\_delete\_users  
*Deactivate a feature for a user*

---

**Description**

Deactivate a feature for a user

**Usage**

```
feature_flags_delete_users(flag_name, user_id)
```

**Arguments**

flag\_name        string required. The feature flag name.  
user\_id         integer required. The user ID.

**Value**

An empty HTTP response

---

feature\_flags\_get        *Show a feature flag*

---

**Description**

Show a feature flag

**Usage**

```
feature_flags_get(name)
```

**Arguments**

name                string required. The name of the feature flag.

**Value**

A list containing the following elements:

name                string, The name of the feature flag  
organizations      array, An array containing the following fields:

- id integer, Organization ID
- name string, Organization name
- slug string, Organization slug

groups	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, Group ID</li> <li>• name string, Group name</li> <li>• slug string, Group slug</li> <li>• users array, Users within the group</li> </ul>
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, User ID</li> <li>• username string, Username</li> </ul>
percentage	integer, The target percentage of users who should have this feature flag enabled.

---

feature\_flags\_list     *List feature flags*

---

## Description

List feature flags

## Usage

```
feature_flags_list()
```

## Value

An array containing the following fields:

name	string, The name of the feature flag.
userCount	integer, The number of users with this feature flag enabled.
description	string,
team	string,
jira	string,
added	string,
groupCount	integer,
organizationCount	integer,
percentage	integer, The target percentage of users who should have this feature flag enabled.
activeForMe	boolean, Whether the feature flag is active for the current user.

---

feature\_flags\_put\_groups

*Activate a feature for a group*

---

### Description

Activate a feature for a group

### Usage

```
feature_flags_put_groups(flag_name, group_id)
```

### Arguments

flag\_name      string required. The feature flag name.

group\_id        integer required. Group ID.

### Value

A list containing the following elements:

name            string, The name of the feature flag.

userCount      integer, The number of users with this feature flag enabled.

description    string,

team            string,

jira            string,

added          string,

groupCount    integer,

organizationCount  
integer,

percentage    integer, The target percentage of users who should have this feature flag enabled.

activeForMe    boolean, Whether the feature flag is active for the current user.

---

`feature_flags_put_users`*Activate a feature for a user*

---

**Description**

Activate a feature for a user

**Usage**

```
feature_flags_put_users(flag_name, user_id)
```

**Arguments**

`flag_name`      string required. The feature flag name.

`user_id`        integer required. The user ID.

**Value**

A list containing the following elements:

`name`            string, The name of the feature flag.

`userCount`      integer, The number of users with this feature flag enabled.

`description`    string,

`team`            string,

`jira`            string,

`added`          string,

`groupCount`     integer,

`organizationCount`  
integer,

`percentage`     integer, The target percentage of users who should have this feature flag enabled.

`activeForMe`    boolean, Whether the feature flag is active for the current user.

---

fetch_all	<i>Retrieve all results from a paginated endpoint</i>
-----------	---

---

**Description**

Retrieve all results from a paginated endpoint

**Usage**

```
fetch_all(fn, ...)
```

**Arguments**

fn	The API function to be called.
...	Arguments passed to fn.

**Value**

A list with the concatenated results of each page of fn.

**See Also**

Other pagination: [fetch\\_until\(\)](#)

**Examples**

```
## Not run:  
columns <- fetch_all(tables_list_columns, id = 123)  
column_names <- columns %>% purrr::map_chr("name")  
  
## End(Not run)
```

---

fetch_and_generate_client	<i>Fetches and generates the client in generated_client.R</i>
---------------------------	---

---

**Description**

Fetches and generates the client in generated\_client.R

**Usage**

```
fetch_and_generate_client()
```

**Details**

Skips autogeneration on windows with R < 3.4.0 and if R\_CLIENT\_DEV == "TRUE". A valid CIVIS\_API\_KEY must be set.

---

fetch_logs	<i>Fetch job logs from the Civis Platform</i>
------------	---

---

**Description**

Fetch job logs from the Civis Platform

**Usage**

```
fetch_logs(object, limit = 100, ...)
```

**Arguments**

object	A <code>civis_api</code> , <code>civis_error</code> , or <code>civis_ml</code> object.
limit	The number of log lines to fetch, the default is 100.
...	Extra parameters passed to methods, currently unused.

**Value**

A list of log messages with class `civis_logs`.

**Examples**

```
## Not run:  
m <- civis_ml_fetch_existing(123)  
fetch_logs(m)  
  
import <- write_civis(iris, "scratch.mytest")  
fetch_logs(import)  
  
query_run <- query_civis(123)  
fetch_logs(query_run)  
  
e <- tryCatch(read_civis("asdf;"), error = function(e) e)  
fetch_logs(e)  
  
## End(Not run)
```

---

fetch_oos_scores	<i>Retrieve out of sample/fold predictions</i>
------------------	--

---

**Description**

Retrieve out of sample/fold predictions

**Usage**

```
fetch_oos_scores(model, ...)
```

**Arguments**

model	A <code>civis_ml</code> model.
...	Parameters passed to <code>read.csv</code> .

**Details**

Returns the out of sample (or out of fold) predictions for each observation. For a multiclass model, a data frame is returned with one column of predictions for each class.

**Value**

A data frame with out of sample/fold predictions for each row of the training data, and containing an additional column with a primary key.

**See Also**

`civis_ml`

---

fetch_output_file_ids	<i>Return output from a civis_script.</i>
-----------------------	---

---

**Description**

Return output from a `civis_script`.

**Usage**

```
fetch_output_file_ids(x, regex = NULL)
```

```
fetch_output(x, regex = NULL)
```

**Arguments**

x	<code>civis_script</code>
regex	string, regex used to match the run output name.



**Details**

If the script has no outputs, the results are a list of length is 0.

**Value**

A named list of run output file ids with names matching regex.

**Functions**

- `fetch_output`: Return output of `scripts_list*_runs_outputs` matching regex.

**See Also**

Other `script_utils`: `civis_script()`, `run_civis()`, `run_template()`

Other `script_utils`: `civis_script()`, `run_civis()`, `run_template()`

**Examples**

```
## Not run:
out <- fetch_output(civis_script(1234))

# Filter output with regex, then read into memory:
ids <- fetch_output_file_ids(civis_script(1234), regex = '.csv')
vals <- lapply(ids, read_civis, using = read.csv)

## End(Not run)
```

---

fetch_predictions	<i>Retrieve predictions from a CivisML prediction job</i>
-------------------	---

---

**Description**

Retrieve predictions from a CivisML prediction job

**Usage**

```
fetch_predictions(x, ...)
```

**Arguments**

x	civis_ml_prediction object from <code>predict.civis_ml</code>
...	arguments passed to <code>read.csv</code>

**Details**

Predictions can also be downloaded as a csv directly using `download_civis` (see examples).

**Value**

A data.frame of predictions containing an additional column with a primary key. For a multiclass model, a data frame is returned with one column of predictions for each class.

**Examples**

```
## Not run:
m <- civis_ml("path/to/file.csv", model_type = "sparse_logistic",
  dependent_variable = "Species")
pred_job <- predict(m, newdata = "path/to/newdata.csv")
yhat <- fetch_predictions(pred_job)

# download instead:
download_civis(pred_job$model_info$output_file_ids, path = "my_predictions.csv")

## End(Not run)
```

---

 fetch\_until

*Retrieve some results from a paginated endpoint*


---

**Description**

fetch\_until will retrieve paginated results until a condition is met. This is useful when searching for a particular value or record.

**Usage**

```
fetch_until(fn, .until, ...)
```

**Arguments**

fn	The API function to be called.
.until	A function which returns a boolean value. .until will be called with each item from the API response. When .until returns TRUE iteration will stop and fetch_until will return all responses accumulated so far.
...	Arguments passed to fn.

**Value**

A list with the concatenated results of each page of fn.

**See Also**

Other pagination: [fetch\\_all\(\)](#)

**Examples**

```
## Not run:
columns <- fetch_until(tables_list_columns,
                      .until = function(x) x == "voterbase_id")

## End(Not run)
```

---

files\_delete\_preprocess\_csv

*Archive a Preprocess CSV (deprecated, use archiving endpoints instead)*

---

**Description**

Archive a Preprocess CSV (deprecated, use archiving endpoints instead)

**Usage**

```
files_delete_preprocess_csv(id)
```

**Arguments**

id                   integer required.

**Value**

An empty HTTP response

---

files\_delete\_projects *Remove a File from a project*

---

**Description**

Remove a File from a project

**Usage**

```
files_delete_projects(id, project_id)
```

**Arguments**

id                   integer required. The ID of the File.  
project\_id          integer required. The ID of the project.

**Value**

An empty HTTP response

files\_delete\_shares\_groups

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
files_delete_shares_groups(id, group_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

files\_delete\_shares\_users

*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
files_delete_shares_users(id, user_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

files_get	<i>Get details about a file</i>
-----------	---------------------------------

---

**Description**

Get details about a file

**Usage**

```
files_get(id, link_expires_at = NULL, inline = NULL)
```

**Arguments**

id	integer required. The ID of the file.
link_expires_at	string optional. The date and time the download link will expire. Must be a time between now and 36 hours from now. Defaults to 30 minutes from now.
inline	boolean optional. If true, will return a url that can be displayed inline in HTML

**Value**

A list containing the following elements:

id	integer, The ID of the file.
name	string, The file name.
createdAt	string, The date and time the file was created.
fileSize	integer, The file size.
expiresAt	string, The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
downloadUrl	string, A JSON string containing information about the URL of the file.
fileUrl	string, The URL that may be used to download the file.
detectedInfo	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• includeHeader boolean, A boolean value indicating whether or not the first row of the file is a header row.</li> <li>• columnDelimiter string, The column delimiter for the file. One of "comma", "tab", or "pipe".</li> </ul>

- compression string, The type of compression of the file. One of "gzip", or "none".
- tableColumns array, An array of hashes corresponding to the columns in the file. Each hash should have keys for column "name" and "sql\_type"

---

files\_get\_preprocess\_csv

*Get a Preprocess CSV*

---

### Description

Get a Preprocess CSV

### Usage

files\_get\_preprocess\_csv(id)

### Arguments

id                    integer required.

### Value

A list containing the following elements:

id	integer, The ID of the job created.
fileId	integer, The ID of the file.
inPlace	boolean, If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
detectTableColumns	boolean, If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.
forceCharacterSetConversion	boolean, If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
includeHeader	boolean, A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
columnDelimiter	string, The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.
hidden	boolean, The hidden status of the item.

---

files\_list\_projects    *List the projects a File belongs to*

---

### Description

List the projects a File belongs to

### Usage

```
files_list_projects(id, hidden = NULL)
```

### Arguments

id	integer required. The ID of the File.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

### Value

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

files_list_shares	<i>List users and groups permissioned on this object</i>
-------------------	--

---

**Description**

List users and groups permissioned on this object

**Usage**

```
files_list_shares(id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
----	--

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"><li>• users array,</li><li>• groups array,</li></ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"><li>• users array,</li><li>• groups array,</li></ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"><li>• users array,</li><li>• groups array,</li></ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.



---

files_patch	<i>Update details about a file</i>
-------------	------------------------------------

---

**Description**

Update details about a file

**Usage**

```
files_patch(id, name = NULL, expires_at = NULL)
```

**Arguments**

id	integer required. The ID of the file.
name	string optional. The file name. The extension must match the previous extension.
expires_at	string optional. The date and time the file will expire.

**Value**

A list containing the following elements:

id	integer, The ID of the file.
name	string, The file name.
createdAt	string, The date and time the file was created.
fileSize	integer, The file size.
expiresAt	string, The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
downloadUrl	string, A JSON string containing information about the URL of the file.
fileUrl	string, The URL that may be used to download the file.
detectedInfo	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• includeHeader boolean, A boolean value indicating whether or not the first row of the file is a header row.</li> <li>• columnDelimiter string, The column delimiter for the file. One of "comma", "tab", or "pipe".</li> <li>• compression string, The type of compression of the file. One of "gzip", or "none".</li> <li>• tableColumns array, An array of hashes corresponding to the columns in the file. Each hash should have keys for column "name" and "sql_type"</li> </ul>

---

```
files_patch_preprocess_csv
```

*Update some attributes of this Preprocess CSV*

---

### Description

Update some attributes of this Preprocess CSV

### Usage

```
files_patch_preprocess_csv(
  id,
  file_id = NULL,
  in_place = NULL,
  detect_table_columns = NULL,
  force_character_set_conversion = NULL,
  include_header = NULL,
  column_delimiter = NULL
)
```

### Arguments

<code>id</code>	integer required. The ID of the job created.
<code>file_id</code>	integer optional. The ID of the file.
<code>in_place</code>	boolean optional. If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
<code>detect_table_columns</code>	boolean optional. If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.
<code>force_character_set_conversion</code>	boolean optional. If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
<code>include_header</code>	boolean optional. A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
<code>column_delimiter</code>	string optional. The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.

### Value

A list containing the following elements:

<code>id</code>	integer, The ID of the job created.
-----------------	-------------------------------------

fileId	integer, The ID of the file.
inPlace	boolean, If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
detectTableColumns	boolean, If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.
forceCharacterSetConversion	boolean, If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
includeHeader	boolean, A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
columnDelimiter	string, The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.
hidden	boolean, The hidden status of the item.

---

files\_post

*Initiate an upload of a file into the platform*


---

## Description

Initiate an upload of a file into the platform

## Usage

```
files_post(name, expires_at = NULL)
```

## Arguments

name	string required. The file name.
expires_at	string optional. The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.

## Value

A list containing the following elements:

id	integer, The ID of the file.
name	string, The file name.
createdAt	string, The date and time the file was created.
fileSize	integer, The file size.

expiresAt	string, The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.
uploadUrl	string, The URL that may be used to upload a file. To use the upload URL, initiate a POST request to the given URL with the file you wish to import as the "file" form field.
uploadFields	list, A hash containing the form fields to be included with the POST request.

---

files\_post\_multipart *Initiate a multipart upload*

---

### Description

Initiate a multipart upload

### Usage

```
files_post_multipart(name, num_parts, expires_at = NULL)
```

### Arguments

name	string required. The file name.
num_parts	integer required. The number of parts in which the file will be uploaded. This parameter determines the number of presigned URLs that are returned.
expires_at	string optional. The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.

### Value

A list containing the following elements:

id	integer, The ID of the file.
name	string, The file name.
createdAt	string, The date and time the file was created.
fileSize	integer, The file size.
expiresAt	string, The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.
uploadUrls	array, An array of URLs that may be used to upload file parts. Use separate PUT requests to complete the part uploads. Links expire after 12 hours.

---

files\_post\_multipart\_complete  
*Complete a multipart upload*

---

**Description**

Complete a multipart upload

**Usage**

```
files_post_multipart_complete(id)
```

**Arguments**

id                    integer required. The ID of the file.

**Value**

An empty HTTP response

---

files\_post\_preprocess\_csv  
*Create a Preprocess CSV*

---

**Description**

Create a Preprocess CSV

**Usage**

```
files_post_preprocess_csv(  
  file_id,  
  in_place = NULL,  
  detect_table_columns = NULL,  
  force_character_set_conversion = NULL,  
  include_header = NULL,  
  column_delimiter = NULL,  
  hidden = NULL  
)
```

**Arguments**

file_id	integer required. The ID of the file.
in_place	boolean optional. If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
detect_table_columns	boolean optional. If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.
force_character_set_conversion	boolean optional. If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
include_header	boolean optional. A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
column_delimiter	string optional. The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.
hidden	boolean optional. The hidden status of the item.

**Value**

A list containing the following elements:

id	integer, The ID of the job created.
fileId	integer, The ID of the file.
inPlace	boolean, If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
detectTableColumns	boolean, If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.
forceCharacterSetConversion	boolean, If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
includeHeader	boolean, A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
columnDelimiter	string, The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.
hidden	boolean, The hidden status of the item.

---

files_put	<i>Update details about a file</i>
-----------	------------------------------------

---

**Description**

Update details about a file

**Usage**

```
files_put(id, name, expires_at)
```

**Arguments**

id	integer required. The ID of the file.
name	string required. The file name. The extension must match the previous extension.
expires_at	string required. The date and time the file will expire.

**Value**

A list containing the following elements:

id	integer, The ID of the file.
name	string, The file name.
createdAt	string, The date and time the file was created.
fileSize	integer, The file size.
expiresAt	string, The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
downloadUrl	string, A JSON string containing information about the URL of the file.
fileUrl	string, The URL that may be used to download the file.
detectedInfo	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• includeHeader boolean, A boolean value indicating whether or not the first row of the file is a header row.</li> <li>• columnDelimiter string, The column delimiter for the file. One of "comma", "tab", or "pipe".</li> <li>• compression string, The type of compression of the file. One of "gzip", or "none".</li> <li>• tableColumns array, An array of hashes corresponding to the columns in the file. Each hash should have keys for column "name" and "sql_type"</li> </ul>

---

 files\_put\_preprocess\_csv

*Replace all attributes of this Preprocess CSV*


---

### Description

Replace all attributes of this Preprocess CSV

### Usage

```
files_put_preprocess_csv(
  id,
  file_id,
  in_place = NULL,
  detect_table_columns = NULL,
  force_character_set_conversion = NULL,
  include_header = NULL,
  column_delimiter = NULL
)
```

### Arguments

id	integer required. The ID of the job created.
file_id	integer required. The ID of the file.
in_place	boolean optional. If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
detect_table_columns	boolean optional. If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.
force_character_set_conversion	boolean optional. If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
include_header	boolean optional. A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
column_delimiter	string optional. The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.

### Value

A list containing the following elements:

id	integer, The ID of the job created.
----	-------------------------------------



fileId	integer, The ID of the file.
inPlace	boolean, If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
detectTableColumns	boolean, If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.
forceCharacterSetConversion	boolean, If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
includeHeader	boolean, A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
columnDelimiter	string, The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.
hidden	boolean, The hidden status of the item.

---

files\_put\_preprocess\_csv\_archive

*Update the archive status of this object*

---

## Description

Update the archive status of this object

## Usage

```
files_put_preprocess_csv_archive(id, status)
```

## Arguments

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

## Value

A list containing the following elements:

id	integer, The ID of the job created.
fileId	integer, The ID of the file.
inPlace	boolean, If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.

detectTableColumns	boolean, If true, detect the table columns in the file including the sql types. If false, skip table column detection.Defaults to false.
forceCharacterSetConversion	boolean, If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
includeHeader	boolean, A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
columnDelimiter	string, The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.
hidden	boolean, The hidden status of the item.

---

files\_put\_projects      *Add a File to a project*

---

## Description

Add a File to a project

## Usage

```
files_put_projects(id, project_id)
```

## Arguments

id	integer required. The ID of the File.
project_id	integer required. The ID of the project.

## Value

An empty HTTP response

---

 files\_put\_shares\_groups

*Set the permissions groups has on this object*


---

**Description**

Set the permissions groups has on this object

**Usage**

```
files_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares  
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

files\_put\_shares\_users  
*Set the permissions users have on this object*

---

### Description

Set the permissions users have on this object

### Usage

```
files_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

### Arguments

id integer required. The ID of the resource that is shared.

user\_ids array required. An array of one or more user IDs.

permission\_level string required. Options are: "read", "write", or "manage".

share\_email\_body string optional. Custom body text for e-mail sent on a share.

send\_shared\_email boolean optional. Send email to the recipients of a share.

### Value

A list containing the following elements:

readers list, A list containing the following elements:

- users array,
- groups array,

writers list, A list containing the following elements:

- users array,
- groups array,

owners list, A list containing the following elements:

- users array,

- groups array,
- totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

<code>generate_client</code>	<i>Generate a client</i>
------------------------------	--------------------------

---

**Description**

Generate a client

**Usage**

`generate_client(spec)`

**Arguments**

`spec` usually from `get_spec`

**Value**

A string containing one documented function for each verb at each endpoint.

---

<code>get_database_id</code>	<i>Return the database id for a given database name</i>
------------------------------	---

---

**Description**

Return the database id for a given database name

**Usage**

`get_database_id(database_name)`

**Arguments**

`database_name` string, Name of database.

**Value**

`database_id` integer, id of the matching database.

---

get_error	<i>Get error data from civis_errors</i>
-----------	---

---

### Description

Get error data from civis\_errors

### Usage

```
get_error(x)
```

### Arguments

x                    The error, usually from tryCatch

### Value

A list containing

f	The function
args	A list of named arguments f was called with
error	The error message from platform (if any)
status	The status

### Examples

```
## Not run:
q_id <- queries_post(db_id, query, n_rows, cred_id)[["id"]]
r <- tryCatch(await(queries_get, id = q_id), error = function(e) e)
print(r)
get_error(r)

r <- try(await(queries_get, id = q_id))
get_error(r)

## End(Not run)
```

---

get\_feature\_importance

*Get model feature importance*

---

**Description**

Get model feature importance

**Usage**

```
get_feature_importance(model)
```

**Arguments**

model            Object from [civis\\_ml](#)

**Value**

A matrix of features and their importance, ranked in descending order of importance

---

get\_job\_type\_version    *Derive the job type and version from the given alias.*

---

**Description**

Derive the job type and version from the given alias.

**Usage**

```
get_job_type_version(alias)
```

**Arguments**

alias            A one-length character vector of the CivisML alias

**Value**

A list containing the job\_type and version

---

get_metric	<i>Get model metrics</i>
------------	--------------------------

---

**Description**

Get model metrics

**Usage**

```
get_metric(model, name = NULL)
```

**Arguments**

model	Object from <a href="#">civis_ml</a>
name	Name of the metric. If NULL, all metrics are returned. Possible metrics are listed in details.

**Details**

The list of possible metrics provided by CivisML is:

Classification:

```
"accuracy", "confusion_matrix", "p_correct", "pop_incidence_true", "pop_incidence_pred",
"roc_auc", "log_loss", "brier_score", "roc_curve", "calibration_curve", "deciles", "score_histogram",
"training_histogram", "oos_score_table".
```

Regression:

```
"mad", "rmse", "r_squared", "score_histogram", "training_histogram", "y_yhat_plot",
"y_yhat_outlier_rows", "oos_score_table"
```

**Value**

The metric given by name, or all metrics.

---

get_script_fun	<i>Get a script function matching a job type.</i>
----------------	---

---

**Description**

Get a script function matching a job type.

**Usage**

```
get_script_fun(job, verb = c("list", "post"), fun_type = c("outputs", "logs"))
```



**Arguments**

job	output of jobs_get
verb	one of "list" or "post"
fun_type	one of "logs" or "outputs"

**Details**

container and custom scripts both have the same job type, but can be distinguished by a non-null fromTemplateId.

**Value**

The correct output or log fetching function (e.g. [scripts\\_list\\_containers\\_runs\\_logs](#)) based on the job type.

---

get\_status

*Get the status from results of await*

---

**Description**

Get the status from results of await

**Usage**

```
get_status(response)
```

**Arguments**

response	the results from await
----------	------------------------

**See Also**

await await\_all

---

get_table_id	<i>Return the table id for a given table</i>
--------------	--

---

**Description**

Return the table id for a given table

**Usage**

```
get_table_id(table_name, database = NULL)
```

**Arguments**

table_name	string, Name of table and schema "schema.tablename"
database	string, Name of database where data frame is to be uploaded. If no database is specified, uses options(civis.default_db)

**Value**

table\_id integer, id of the matching table.

**See Also**

Other tables: [refresh\\_table\(\)](#), [transfer\\_table\(\)](#)

---

get_template_ids_all_versions	<i>Get template IDs for all accessible CivisML versions.</i>
-------------------------------	--

---

**Description**

Get template IDs for all accessible CivisML versions.

**Usage**

```
get_template_ids_all_versions()
```

**Value**

A data frame containing the template id, CivisML version, and job type.

---

*get\_train\_template\_id* *Get training template IDs for the specified CivisML version*

---

**Description**

Get training template IDs for the specified CivisML version

**Usage**

```
get_train_template_id(civisml_version = "prod")
```

**Arguments**

`civisml_version`  
A one-length character vector of the CivisML version

**Value**

The template ID for training

---

*git\_repos\_delete* *Remove the bookmark on a git repository*

---

**Description**

Remove the bookmark on a git repository

**Usage**

```
git_repos_delete(id)
```

**Arguments**

`id` integer required. The ID for this git repository.

**Value**

An empty HTTP response

---

git_repos_get	<i>Get a bookmarked git repository</i>
---------------	--

---

**Description**

Get a bookmarked git repository

**Usage**

```
git_repos_get(id)
```

**Arguments**

id	integer required. The ID for this git repository.
----	---

**Value**

A list containing the following elements:

id	integer, The ID for this git repository.
repoUrl	string, The URL for this git repository.
createdAt	string,
updatedAt	string,

---

git_repos_list	<i>List bookmarked git repositories</i>
----------------	---

---

**Description**

List bookmarked git repositories

**Usage**

```
git_repos_list(limit = NULL, page_num = NULL, order = NULL, order_dir = NULL)
```

**Arguments**

limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to repo_url. Must be one of: repo_url, created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

**Value**

An array containing the following fields:

id	integer, The ID for this git repository.
repoUrl	string, The URL for this git repository.
createdAt	string,
updatedAt	string,

---

git_repos_post	<i>Bookmark a git repository</i>
----------------	----------------------------------

---

**Description**

Bookmark a git repository

**Usage**

git\_repos\_post(repo\_url)

**Arguments**

repo\_url      string required. The URL for this git repository.

**Value**

A list containing the following elements:

id	integer, The ID for this git repository.
repoUrl	string, The URL for this git repository.
createdAt	string,
updatedAt	string,

groups\_delete      *Delete a Group (deprecated)*

---

**Description**

Delete a Group (deprecated)

**Usage**

```
groups_delete(id)
```

**Arguments**

id                    integer required.

**Value**

An empty HTTP response

---

groups\_delete\_members      *Remove a user from a group*

---

**Description**

Remove a user from a group

**Usage**

```
groups_delete_members(id, user_id)
```

**Arguments**

id                    integer required. The ID of the group.

user\_id              integer required. The ID of the user.

**Value**

An empty HTTP response

---

`groups_delete_shares_groups`*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
groups_delete_shares_groups(id, group_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>group_id</code>	integer required. The ID of the group.

**Value**

An empty HTTP response

---

`groups_delete_shares_users`*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
groups_delete_shares_users(id, user_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>user_id</code>	integer required. The ID of the user.

**Value**

An empty HTTP response

---

 groups\_get

*Get a Group*


---

**Description**

Get a Group

**Usage**

```
groups_get(id)
```

**Arguments**

id                    integer required.

**Value**

A list containing the following elements:

id	integer, The ID of this group.
name	string, This group's name.
createdAt	string, The date and time when this group was created.
description	string, The description of the group.
slug	string, The slug for this group.
organizationId	integer, The ID of the organization this group belongs to.
organizationName	string, The name of the organization this group belongs to.
memberCount	integer, The total number of members in this group.
mustAgreeToEula	boolean, Whether or not members of this group must sign the EULA.
defaultOtpRequiredForLogin	boolean, The two factor authentication requirement for this group.
roleIds	array, An array of ids of all the roles this group has.
defaultTimeZone	string, The default time zone of this group.
defaultJobsLabel	string, The default partition label for jobs of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
defaultNotebooksLabel	string, The default partition label for notebooks of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.



defaultServicesLabel	string, The default partition label for services of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
members	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>

groups\_list

*List Groups***Description**

List Groups

**Usage**

```
groups_list(
  query = NULL,
  permission = NULL,
  include_members = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

query	string optional. If specified, it will filter the groups returned. Infix matching is supported (e.g., "query=group" will return "group" and "group of people" and "my group" and "my group of people").
permission	string optional. A permissions string, one of "read", "write", or "manage". Lists only groups for which the current user has that permission.
include_members	boolean optional. Show members of the group.
limit	integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to name. Must be one of: name, created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

**Value**

An array containing the following fields:

id	integer, The ID of this group.
name	string, This group's name.
createdAt	string, The date and time when this group was created.
slug	string, The slug for this group.
organizationId	integer, The ID of the organization this group belongs to.
organizationName	string, The name of the organization this group belongs to.
memberCount	integer, The total number of members in this group.
members	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>

---

groups\_list\_shares      *List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

groups\_list\_shares(id)

**Arguments**

id	integer required. The ID of the resource that is shared.
----	--

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>

owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

groups_patch	<i>Update some attributes of this Group</i>
--------------	---

---

## Description

Update some attributes of this Group

## Usage

```
groups_patch(
  id,
  name = NULL,
  description = NULL,
  slug = NULL,
  organization_id = NULL,
  must_agree_to_eula = NULL,
  default_otp_required_for_login = NULL,
  role_ids = NULL,
  default_time_zone = NULL,
  default_jobs_label = NULL,
  default_notebooks_label = NULL,
  default_services_label = NULL
)
```

## Arguments

id	integer required. The ID of this group.
name	string optional. This group's name.
description	string optional. The description of the group.
slug	string optional. The slug for this group.
organization_id	integer optional. The ID of the organization this group belongs to.
must_agree_to_eula	boolean optional. Whether or not members of this group must sign the EULA.

default_otp_required_for_login	boolean optional. The two factor authentication requirement for this group.
role_ids	array optional. An array of ids of all the roles this group has.
default_time_zone	string optional. The default time zone of this group.
default_jobs_label	string optional. The default partition label for jobs of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
default_notebooks_label	string optional. The default partition label for notebooks of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
default_services_label	string optional. The default partition label for services of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.

### Value

A list containing the following elements:

id	integer, The ID of this group.
name	string, This group's name.
createdAt	string, The date and time when this group was created.
description	string, The description of the group.
slug	string, The slug for this group.
organizationId	integer, The ID of the organization this group belongs to.
organizationName	string, The name of the organization this group belongs to.
memberCount	integer, The total number of members in this group.
mustAgreeToEula	boolean, Whether or not members of this group must sign the EULA.
defaultOtpRequiredForLogin	boolean, The two factor authentication requirement for this group.
roleIds	array, An array of ids of all the roles this group has.
defaultTimeZone	string, The default time zone of this group.
defaultJobsLabel	string, The default partition label for jobs of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
defaultNotebooksLabel	string, The default partition label for notebooks of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.

defaultServicesLabel	string, The default partition label for services of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
members	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>

---

groups_post	<i>Create a Group</i>
-------------	-----------------------

---

## Description

Create a Group

## Usage

```
groups_post(
  name,
  description = NULL,
  slug = NULL,
  organization_id = NULL,
  must_agree_to_eula = NULL,
  default_otp_required_for_login = NULL,
  role_ids = NULL,
  default_time_zone = NULL,
  default_jobs_label = NULL,
  default_notebooks_label = NULL,
  default_services_label = NULL
)
```

## Arguments

name	string required. This group's name.
description	string optional. The description of the group.
slug	string optional. The slug for this group.
organization_id	integer optional. The ID of the organization this group belongs to.
must_agree_to_eula	boolean optional. Whether or not members of this group must sign the EULA.
default_otp_required_for_login	boolean optional. The two factor authentication requirement for this group.

role_ids	array optional. An array of ids of all the roles this group has.
default_time_zone	string optional. The default time zone of this group.
default_jobs_label	string optional. The default partition label for jobs of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
default_notebooks_label	string optional. The default partition label for notebooks of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
default_services_label	string optional. The default partition label for services of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.

### Value

A list containing the following elements:

id	integer, The ID of this group.
name	string, This group's name.
createdAt	string, The date and time when this group was created.
description	string, The description of the group.
slug	string, The slug for this group.
organizationId	integer, The ID of the organization this group belongs to.
organizationName	string, The name of the organization this group belongs to.
memberCount	integer, The total number of members in this group.
mustAgreeToEula	boolean, Whether or not members of this group must sign the EULA.
defaultOtpRequiredForLogin	boolean, The two factor authentication requirement for this group.
roleIds	array, An array of ids of all the roles this group has.
defaultTimeZone	string, The default time zone of this group.
defaultJobsLabel	string, The default partition label for jobs of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
defaultNotebooksLabel	string, The default partition label for notebooks of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.

defaultServicesLabel	string, The default partition label for services of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
members	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>

---

groups\_put

---

*Replace all attributes of this Group*


---

### Description

Replace all attributes of this Group

### Usage

```
groups_put(
  id,
  name,
  description = NULL,
  slug = NULL,
  organization_id = NULL,
  must_agree_to_eula = NULL,
  default_otp_required_for_login = NULL,
  role_ids = NULL,
  default_time_zone = NULL,
  default_jobs_label = NULL,
  default_notebooks_label = NULL,
  default_services_label = NULL
)
```

### Arguments

id	integer required. The ID of this group.
name	string required. This group's name.
description	string optional. The description of the group.
slug	string optional. The slug for this group.
organization_id	integer optional. The ID of the organization this group belongs to.
must_agree_to_eula	boolean optional. Whether or not members of this group must sign the EULA.

default_otp_required_for_login	boolean optional. The two factor authentication requirement for this group.
role_ids	array optional. An array of ids of all the roles this group has.
default_time_zone	string optional. The default time zone of this group.
default_jobs_label	string optional. The default partition label for jobs of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
default_notebooks_label	string optional. The default partition label for notebooks of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
default_services_label	string optional. The default partition label for services of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.

### Value

A list containing the following elements:

id	integer, The ID of this group.
name	string, This group's name.
createdAt	string, The date and time when this group was created.
description	string, The description of the group.
slug	string, The slug for this group.
organizationId	integer, The ID of the organization this group belongs to.
organizationName	string, The name of the organization this group belongs to.
memberCount	integer, The total number of members in this group.
mustAgreeToEula	boolean, Whether or not members of this group must sign the EULA.
defaultOtpRequiredForLogin	boolean, The two factor authentication requirement for this group.
roleIds	array, An array of ids of all the roles this group has.
defaultTimeZone	string, The default time zone of this group.
defaultJobsLabel	string, The default partition label for jobs of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
defaultNotebooksLabel	string, The default partition label for notebooks of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.



defaultServicesLabel	string, The default partition label for services of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
members	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>

---

groups\_put\_members      *Add a user to a group*

---

### Description

Add a user to a group

### Usage

```
groups_put_members(id, user_id)
```

### Arguments

id	integer required. The ID of the group.
user_id	integer required. The ID of the user.

### Value

A list containing the following elements:

id	integer, The ID of this group.
name	string, This group's name.
createdAt	string, The date and time when this group was created.
description	string, The description of the group.
slug	string, The slug for this group.
organizationId	integer, The ID of the organization this group belongs to.
organizationName	string, The name of the organization this group belongs to.
memberCount	integer, The total number of members in this group.
mustAgreeToEula	boolean, Whether or not members of this group must sign the EULA.
defaultOtpRequiredForLogin	boolean, The two factor authentication requirement for this group.

roleIds	array, An array of ids of all the roles this group has.
defaultTimeZone	string, The default time zone of this group.
defaultJobsLabel	string, The default partition label for jobs of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
defaultNotebooksLabel	string, The default partition label for notebooks of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
defaultServicesLabel	string, The default partition label for services of this group. Only available if custom_partitions feature flag is set. Do not use this attribute as it may break in the future.
members	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>

---

groups\_put\_shares\_groups

*Set the permissions groups has on this object*

---

## Description

Set the permissions groups has on this object

## Usage

```
groups_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

## Arguments

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.

permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

groups\_put\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
groups_put_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

hist.civis_ml	<i>Plot a histogram of the predicted scores or probabilities for a CivisML object</i>
---------------	---

---

**Description**

Plot a histogram of the predicted scores or probabilities for a CivisML object

**Usage**

```
## S3 method for class 'civis_ml'
hist(x, name = NULL, ...)
```

**Arguments**

x	civis_ml object
name	name of the class (for multiclass output)
...	unused.

**Value**

A ggplot2 plot object is returned invisibly.

---

imports\_delete\_files\_csv

*Archive a CSV Import (deprecated, use archiving endpoints instead)*

---

**Description**

Archive a CSV Import (deprecated, use archiving endpoints instead)

**Usage**

```
imports_delete_files_csv(id)
```

**Arguments**

id	integer required.
----	-------------------

**Value**

An empty HTTP response

---

imports\_delete\_files\_runs

*Cancel a run*

---

**Description**

Cancel a run

**Usage**

```
imports_delete_files_runs(id, run_id)
```

**Arguments**

id	integer required. The ID of the import.
run_id	integer required. The ID of the run.

**Value**

An empty HTTP response

---

imports\_delete\_projects

*Remove an Import from a project*

---

**Description**

Remove an Import from a project

**Usage**

```
imports_delete_projects(id, project_id)
```

**Arguments**

id	integer required. The ID of the Import.
project_id	integer required. The ID of the project.

**Value**

An empty HTTP response

---

imports\_delete\_shares\_groups

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
imports_delete_shares_groups(id, group_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

imports\_delete\_shares\_users  
*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
imports_delete_shares_users(id, user_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

imports\_delete\_syncs *Archive a sync (deprecated, use the /archive endpoint instead)*

---

**Description**

Archive a sync (deprecated, use the /archive endpoint instead)

**Usage**

```
imports_delete_syncs(id, sync_id)
```

**Arguments**

id	integer required. The ID of the import to fetch.
sync_id	integer required. The ID of the sync to fetch.

**Value**

An empty HTTP response

---

 imports\_get

 Get details about an import
 

---

**Description**

Get details about an import

**Usage**

```
imports_get(id)
```

**Arguments**

id integer required. The ID for the import.

**Value**

A list containing the following elements:

name	string, The name of the import.
syncType	string, The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• remoteHostId integer,</li> <li>• credentialId integer,</li> <li>• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.</li> <li>• name string,</li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• remoteHostId integer,</li> <li>• credentialId integer,</li> <li>• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.</li> <li>• name string,</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> </ul>



	<ul style="list-style-type: none"> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
parentId	integer, Parent id to trigger this import from
id	integer, The ID for the import.
isOutbound	boolean,
jobType	string, The job type of this import.
syncs	<p>array, An array containing the following fields:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• source object,</li> <li>• destination object,</li> <li>• advancedOptions object,</li> </ul>
state	string,
createdAt	string,
updatedAt	string,
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
user	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> </ul>

	<ul style="list-style-type: none"> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this import.
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).

---

imports\_get\_batches     *Get details about a batch import*

---

## Description

Get details about a batch import

## Usage

```
imports_get_batches(id)
```

## Arguments

id                    integer required. The ID for the import.

## Value

A list containing the following elements:

id	integer, The ID for the import.
schema	string, The destination schema name. This schema must already exist in Redshift.
table	string, The destination table name, without the schema prefix. This table must already exist in Redshift.
remoteHostId	integer, The ID of the destination database host.
state	string, The state of the run; one of "queued", "running", "succeeded", "failed", or "cancelled".
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error returned by the run, if any.
hidden	boolean, The hidden status of the item.

---

 imports\_get\_files\_csv *Get a CSV Import*


---

**Description**

Get a CSV Import

**Usage**

```
imports_get_files_csv(id)
```

**Arguments**

id integer required.

**Value**

A list containing the following elements:

id	integer, The ID for the import.
name	string, The name of the import.
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• fileIds array, The file ID(s) to import, if importing Civis file(s).</li> <li>• storagePath list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– storageHostId integer, The ID of the source storage host.</li> <li>– credentialId integer, The ID of the credentials for the source storage host.</li> <li>– filePaths array, The file or directory path(s) within the bucket from which to import. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"If specifying a directory path, the job will import every file found under that path. All files must have the same column layout and file format (e.g., compression, columnDelimiter, etc.).</li> </ul> </li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• schema string, The destination schema name.</li> <li>• table string, The destination table name.</li> <li>• remoteHostId integer, The ID of the destination database host.</li> <li>• credentialId integer, The ID of the credentials for the destination database.</li> <li>• primaryKeys array, A list of column(s) which together uniquely identify a row in the destination table. These columns must not contain NULL values. If the import mode is "upsert", this field is required; see the Civis Helpdesk article on "Advanced CSV Imports via the Civis API" for more information.</li> <li>• lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.</li> </ul>

firstRowIsHeader	boolean, A boolean value indicating whether or not the first row of the source file is a header row.
columnDelimiter	string, The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
escaped	boolean, A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.
compression	string, The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".
existingTableRows	string, The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".
maxErrors	integer, The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.
tableColumns	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The column name.</li> <li>• sqlType string, The SQL type of the column.</li> </ul>
loosenTypes	boolean, If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.
execution	string, In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.
redshiftDestinationOptions	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• diststyle string, The diststyle to use for the table. One of "even", "all", or "key".</li> <li>• distkey string, Distkey for this table in Redshift</li> <li>• sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.</li> </ul>
hidden	boolean, The hidden status of the item.

---

imports\_get\_files\_runs

*Check status of a run*

---

## Description

Check status of a run

**Usage**

```
imports_get_files_runs(id, run_id)
```

**Arguments**

id	integer required. The ID of the import.
run_id	integer required. The ID of the run.

**Value**

A list containing the following elements:

id	integer, The ID of the run.
importId	integer, The ID of the import.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

imports_list	<i>List Imports</i>
--------------	---------------------

---

**Description**

List Imports

**Usage**

```
imports_list(
  type = NULL,
  author = NULL,
  destination = NULL,
  source = NULL,
  status = NULL,
  hidden = NULL,
  archived = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

type	string optional. If specified, return imports of these types. It accepts a comma-separated list, possible values are 'AutoImport', 'DbSync', 'Salesforce', 'GdocImport'.
author	string optional. If specified, return imports from this author. It accepts a comma-separated list of author ids.
destination	string optional. If specified, returns imports with one of these destinations. It accepts a comma-separated list of remote host ids.
source	string optional. If specified, returns imports with one of these sources. It accepts a comma-separated list of remote host ids. 'DbSync' must be specified for 'type'.
status	string optional. If specified, returns imports with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
archived	string optional. The archival status of the requested item(s).
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at, last_run.updated_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

name	string, The name of the import.
syncType	string, The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>remoteHostId integer,</li> <li>credentialId integer,</li> <li>additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.</li> <li>name string,</li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>remoteHostId integer,</li> </ul>

	<ul style="list-style-type: none"> <li>• credentialId integer,</li> <li>• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.</li> <li>• name string,</li> </ul>
schedule	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
id	integer, The ID for the import.
isOutbound	boolean,
jobType	string, The job type of this import.
state	string,
createdAt	string,
updatedAt	string,
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
user	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
timeZone	string, The time zone of this import.
archived	string, The archival status of the requested item(s).

---

imports\_list\_batches *List batch imports*

---

### Description

List batch imports

### Usage

```
imports_list_batches(
  hidden = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

### Arguments

hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

### Value

An array containing the following fields:

id	integer, The ID for the import.
schema	string, The destination schema name. This schema must already exist in Redshift.
table	string, The destination table name, without the schema prefix. This table must already exist in Redshift.
remoteHostId	integer, The ID of the destination database host.
state	string, The state of the run; one of "queued", "running", "succeeded", "failed", or "cancelled".
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error returned by the run, if any.



---

 imports\_list\_files\_runs

*List runs for the given import*


---

### Description

List runs for the given import

### Usage

```
imports_list_files_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

### Arguments

id	integer required. The ID of the import.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

### Value

An array containing the following fields:

id	integer, The ID of the run.
importId	integer, The ID of the import.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

imports\_list\_files\_runs\_logs  
*Get the logs for a run*

---

**Description**

Get the logs for a run

**Usage**

```
imports_list_files_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

id	integer required. The ID of the import.
run_id	integer required. The ID of the run.
last_id	integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit	integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

id	integer, The ID of the log.
createdAt	string, The time the log was created.
message	string, The log message.
level	string, The level of the log. One of unknown,fatal,error,warn,info,debug.

---

imports\_list\_projects *List the projects an Import belongs to*

---

**Description**

List the projects an Import belongs to

**Usage**

```
imports_list_projects(id, hidden = NULL)
```

**Arguments**

id	integer required. The ID of the Import.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

imports\_list\_runs      *Get the run history of this import*

---

**Description**

Get the run history of this import

**Usage**

```
imports_list_runs(id)
```

**Arguments**

id	integer required.
----	-------------------

**Value**

An array containing the following fields:

id	integer,
state	string,
createdAt	string, The time that the run was queued.
startedAt	string, The time that the run started.
finishedAt	string, The time that the run completed.
error	string, The error message for this run, if present.

---

imports\_list\_runs\_logs

*Get the logs for a run*

---

**Description**

Get the logs for a run

**Usage**

```
imports_list_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

id	integer required. The ID of the import.
run_id	integer required. The ID of the run.
last_id	integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit	integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

id	integer, The ID of the log.
createdAt	string, The time the log was created.
message	string, The log message.
level	string, The level of the log. One of unknown,fatal,error,warn,info,debug.

---

imports\_list\_shares    *List users and groups permissioned on this object*

---

### Description

List users and groups permissioned on this object

### Usage

```
imports_list_shares(id)
```

### Arguments

id                    integer required. The ID of the resource that is shared.

### Value

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"><li>• users array,</li><li>• groups array,</li></ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"><li>• users array,</li><li>• groups array,</li></ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"><li>• users array,</li><li>• groups array,</li></ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

 imports\_patch\_files\_csv

*Update some attributes of this CSV Import*


---

### Description

Update some attributes of this CSV Import

### Usage

```
imports_patch_files_csv(
  id,
  name = NULL,
  source = NULL,
  destination = NULL,
  first_row_is_header = NULL,
  column_delimiter = NULL,
  escaped = NULL,
  compression = NULL,
  existing_table_rows = NULL,
  max_errors = NULL,
  table_columns = NULL,
  loosen_types = NULL,
  execution = NULL,
  redshift_destination_options = NULL
)
```

### Arguments

id	integer required. The ID for the import.
name	string optional. The name of the import.
source	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• fileIds array, The file ID(s) to import, if importing Civis file(s).</li> <li>• storagePath list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– storageHostId integer, The ID of the source storage host.</li> <li>– credentialId integer, The ID of the credentials for the source storage host.</li> <li>– filePaths array, The file or directory path(s) within the bucket from which to import. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"If specifying a directory path, the job will import every file found under that path. All files must have the same column layout and file format (e.g., compression, columnDelimiter, etc.).</li> </ul> </li> </ul>
destination	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• schema string, The destination schema name.</li> <li>• table string, The destination table name.</li> </ul>

- remoteHostId integer, The ID of the destination database host.
- credentialId integer, The ID of the credentials for the destination database.
- primaryKeys array, A list of column(s) which together uniquely identify a row in the destination table. These columns must not contain NULL values. If the import mode is "upsert", this field is required; see the Civis Helpdesk article on "Advanced CSV Imports via the Civis API" for more information.
- lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.

**first\_row\_is\_header**

boolean optional. A boolean value indicating whether or not the first row of the source file is a header row.

**column\_delimiter**

string optional. The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".

**escaped**

boolean optional. A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.

**compression**

string optional. The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".

**existing\_table\_rows**

string optional. The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".

**max\_errors**

integer optional. The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.

**table\_columns**

array optional. An array containing the following fields:

- name string, The column name.
- sqlType string, The SQL type of the column.

**loosen\_types**

boolean optional. If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.

**execution**

string optional. In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.

**redshift\_destination\_options**

list optional. A list containing the following elements:

- diststyle string, The diststyle to use for the table. One of "even", "all", or "key".
- distkey string, Distkey for this table in Redshift
- sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.

**Value**

A list containing the following elements:

id	integer, The ID for the import.
name	string, The name of the import.
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• fileIds array, The file ID(s) to import, if importing Civis file(s).</li> <li>• storagePath list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– storageHostId integer, The ID of the source storage host.</li> <li>– credentialId integer, The ID of the credentials for the source storage host.</li> <li>– filePaths array, The file or directory path(s) within the bucket from which to import. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"If specifying a directory path, the job will import every file found under that path. All files must have the same column layout and file format (e.g., compression, columnDelimiter, etc.).</li> </ul> </li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• schema string, The destination schema name.</li> <li>• table string, The destination table name.</li> <li>• remoteHostId integer, The ID of the destination database host.</li> <li>• credentialId integer, The ID of the credentials for the destination database.</li> <li>• primaryKeys array, A list of column(s) which together uniquely identify a row in the destination table. These columns must not contain NULL values. If the import mode is "upsert", this field is required; see the Civis Helpdesk article on "Advanced CSV Imports via the Civis API" for more information.</li> <li>• lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.</li> </ul>
firstRowIsHeader	boolean, A boolean value indicating whether or not the first row of the source file is a header row.
columnDelimiter	string, The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
escaped	boolean, A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.
compression	string, The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".
existingTableRows	string, The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".
maxErrors	integer, The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.
tableColumns	array, An array containing the following fields:



	<ul style="list-style-type: none"> <li>• name string, The column name.</li> <li>• sqlType string, The SQL type of the column.</li> </ul>
loosenTypes	boolean, If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.
execution	string, In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.
redshiftDestinationOptions	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• diststyle string, The diststyle to use for the table. One of "even", "all", or "key".</li> <li>• distkey string, Distkey for this table in Redshift</li> <li>• sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.</li> </ul>
hidden	boolean, The hidden status of the item.

---

imports\_post

---

*Create a new import configuration*


---

## Description

Create a new import configuration

## Usage

```
imports_post(
  name,
  sync_type,
  is_outbound,
  source = NULL,
  destination = NULL,
  schedule = NULL,
  notifications = NULL,
  parent_id = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  hidden = NULL
)
```

**Arguments**

name	string required. The name of the import.
sync_type	string required. The type of sync to perform; one of DbSync, AutoImport, GdocImport, GdocExport, and Salesforce.
is_outbound	boolean required.
source	list optional. A list containing the following elements: <ul style="list-style-type: none"><li>• remoteHostId integer,</li><li>• credentialId integer,</li><li>• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.</li></ul>
destination	list optional. A list containing the following elements: <ul style="list-style-type: none"><li>• remoteHostId integer,</li><li>• credentialId integer,</li><li>• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.</li></ul>
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"><li>• scheduled boolean, If the item is scheduled.</li><li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li><li>• scheduledHours array, Hours of the day it is scheduled on.</li><li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li><li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li></ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"><li>• urls array, URLs to receive a POST request at job completion</li><li>• successEmailSubject string, Custom subject line for success e-mail.</li><li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li><li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li><li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li><li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li><li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li></ul>

	<ul style="list-style-type: none"> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
parent_id	integer optional. Parent id to trigger this import from
next_run_at	string optional. The time of the next scheduled run.
time_zone	string optional. The time zone of this import.
hidden	boolean optional. The hidden status of the item.

**Value**

A list containing the following elements:

name	string, The name of the import.
syncType	string, The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• remoteHostId integer,</li> <li>• credentialId integer,</li> <li>• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.</li> <li>• name string,</li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• remoteHostId integer,</li> <li>• credentialId integer,</li> <li>• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.</li> <li>• name string,</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> </ul>

	<ul style="list-style-type: none"> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
parentId	integer, Parent id to trigger this import from
id	integer, The ID for the import.
isOutbound	boolean,
jobType	string, The job type of this import.
syncs	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• source object,</li> <li>• destination object,</li> <li>• advancedOptions object,</li> </ul>
state	string,
createdAt	string,
updatedAt	string,
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> </ul>

	<ul style="list-style-type: none"> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this import.
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).

---

imports\_post\_batches *Upload multiple files to Civis*

---

### Description

Upload multiple files to Civis

### Usage

```
imports_post_batches(
  file_ids,
  schema,
  table,
  remote_host_id,
  credential_id,
  column_delimiter = NULL,
  first_row_is_header = NULL,
  compression = NULL,
  hidden = NULL
)
```

### Arguments

file_ids	array required. The file IDs for the import.
schema	string required. The destination schema name. This schema must already exist in Redshift.
table	string required. The destination table name, without the schema prefix. This table must already exist in Redshift.
remote_host_id	integer required. The ID of the destination database host.
credential_id	integer required. The ID of the credentials to be used when performing the database import.
column_delimiter	string optional. The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". If unspecified, defaults to "comma".

first_row_is_header	boolean optional. A boolean value indicating whether or not the first row is a header row. If unspecified, defaults to false.
compression	string optional. The type of compression. Valid arguments are "gzip", "zip", and "none". If unspecified, defaults to "gzip".
hidden	boolean optional. The hidden status of the item.

**Value**

A list containing the following elements:

id	integer, The ID for the import.
schema	string, The destination schema name. This schema must already exist in Redshift.
table	string, The destination table name, without the schema prefix. This table must already exist in Redshift.
remoteHostId	integer, The ID of the destination database host.
state	string, The state of the run; one of "queued", "running", "succeeded", "failed", or "cancelled".
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error returned by the run, if any.
hidden	boolean, The hidden status of the item.

---

imports\_post\_cancel    *Cancel a run*

---

**Description**

Cancel a run

**Usage**

```
imports_post_cancel(id)
```

**Arguments**

id	integer required. The ID of the job.
----	--------------------------------------

**Value**

A list containing the following elements:

id	integer, The ID of the run.
state	string, The state of the run, one of 'queued', 'running' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.

---

imports\_post\_files      *Initiate an import of a tabular file into the platform*

---

### Description

Initiate an import of a tabular file into the platform

### Usage

```
imports_post_files(
    schema,
    name,
    remote_host_id,
    credential_id,
    max_errors = NULL,
    existing_table_rows = NULL,
    diststyle = NULL,
    distkey = NULL,
    sortkey1 = NULL,
    sortkey2 = NULL,
    column_delimiter = NULL,
    first_row_is_header = NULL,
    multipart = NULL,
    escaped = NULL,
    hidden = NULL
)
```

### Arguments

schema	string required. The schema of the destination table.
name	string required. The name of the destination table.
remote_host_id	integer required. The id of the destination database host.
credential_id	integer required. The id of the credentials to be used when performing the database import.
max_errors	integer optional. The maximum number of rows with errors to remove from the import before failing.
existing_table_rows	string optional. The behaviour if a table with the requested name already exists. One of "fail", "truncate", "append", or "drop". Defaults to "fail".
diststyle	string optional. The diststyle to use for the table. One of "even", "all", or "key".
distkey	string optional. The column to use as the distkey for the table.
sortkey1	string optional. The column to use as the sort key for the table.
sortkey2	string optional. The second column in a compound sortkey for the table.

column_delimiter	string optional. The column delimiter of the file. If column_delimiter is null or omitted, it will be auto-detected. Valid arguments are "comma", "tab", and "pipe".
first_row_is_header	boolean optional. A boolean value indicating whether or not the first row is a header row. If first_row_is_header is null or omitted, it will be auto-detected.
multipart	boolean optional. If true, the upload URI will require a 'multipart/form-data' POST request. Defaults to false.
escaped	boolean optional. If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.
hidden	boolean optional. The hidden status of the item.

**Value**

A list containing the following elements:

id	integer, The id of the import.
uploadUri	string, The URI which may be used to upload a tabular file for import. You must use this URI to upload the file you wish imported and then inform the Civis API when your upload is complete using the URI given by the runUri field of this response.
runUri	string, The URI to POST to once the file upload is complete. After uploading the file using the URI given in the uploadUri attribute of the response, POST to this URI to initiate the import of your uploaded file into the platform.
uploadFields	list, If multipart was set to true, these fields should be included in the multipart upload.

---

imports\_post\_files\_csv

*Create a CSV Import*

---

**Description**

Create a CSV Import

**Usage**

```
imports_post_files_csv(
  source,
  destination,
  first_row_is_header,
  name = NULL,
  column_delimiter = NULL,
  escaped = NULL,
  compression = NULL,
```



```

existing_table_rows = NULL,
max_errors = NULL,
table_columns = NULL,
loosen_types = NULL,
execution = NULL,
redshift_destination_options = NULL,
hidden = NULL
)

```

## Arguments

source	<p>list required. A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• fileIds array, The file ID(s) to import, if importing Civis file(s).</li> <li>• storagePath list . A list containing the following elements: <ul style="list-style-type: none"> <li>– storageHostId integer, The ID of the source storage host.</li> <li>– credentialId integer, The ID of the credentials for the source storage host.</li> <li>– filePaths array, The file or directory path(s) within the bucket from which to import. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"If specifying a directory path, the job will import every file found under that path. All files must have the same column layout and file format (e.g., compression, columnDelimiter, etc.).</li> </ul> </li> </ul>
destination	<p>list required. A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• schema string, The destination schema name.</li> <li>• table string, The destination table name.</li> <li>• remoteHostId integer, The ID of the destination database host.</li> <li>• credentialId integer, The ID of the credentials for the destination database.</li> <li>• primaryKeys array, A list of column(s) which together uniquely identify a row in the destination table. These columns must not contain NULL values. If the import mode is "upsert", this field is required; see the Civis Helpdesk article on "Advanced CSV Imports via the Civis API" for more information.</li> <li>• lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.</li> </ul>
first_row_is_header	<p>boolean required. A boolean value indicating whether or not the first row of the source file is a header row.</p>
name	<p>string optional. The name of the import.</p>
column_delimiter	<p>string optional. The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".</p>
escaped	<p>boolean optional. A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.</p>
compression	<p>string optional. The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".</p>

existing_table_rows	string optional. The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".
max_errors	integer optional. The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.
table_columns	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The column name.</li> <li>• sqlType string, The SQL type of the column.</li> </ul>
loosen_types	boolean optional. If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.
execution	string optional. In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.
redshift_destination_options	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• diststyle string, The diststyle to use for the table. One of "even", "all", or "key".</li> <li>• distkey string, Distkey for this table in Redshift</li> <li>• sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.</li> </ul>
hidden	boolean optional. The hidden status of the item.

## Value

A list containing the following elements:

id	integer, The ID for the import.
name	string, The name of the import.
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• fileIds array, The file ID(s) to import, if importing Cavis file(s).</li> <li>• storagePath list . A list containing the following elements: <ul style="list-style-type: none"> <li>– storageHostId integer, The ID of the source storage host.</li> <li>– credentialId integer, The ID of the credentials for the source storage host.</li> <li>– filePaths array, The file or directory path(s) within the bucket from which to import. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"If specifying a directory path, the job will import every file found under that path. All files must have the same column layout and file format (e.g., compression, columnDelimiter, etc.).</li> </ul> </li> </ul>
destination	list, A list containing the following elements:

- schema string, The destination schema name.
- table string, The destination table name.
- remoteHostId integer, The ID of the destination database host.
- credentialId integer, The ID of the credentials for the destination database.
- primaryKeys array, A list of column(s) which together uniquely identify a row in the destination table. These columns must not contain NULL values. If the import mode is "upsert", this field is required; see the Civis Helpdesk article on "Advanced CSV Imports via the Civis API" for more information.
- lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.

firstRowIsHeader  
boolean, A boolean value indicating whether or not the first row of the source file is a header row.

columnDelimiter  
string, The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".

escaped  
boolean, A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.

compression  
string, The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".

existingTableRows  
string, The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".

maxErrors  
integer, The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.

tableColumns  
array, An array containing the following fields:

- name string, The column name.
- sqlType string, The SQL type of the column.

loosenTypes  
boolean, If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.

execution  
string, In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.

redshiftDestinationOptions  
list, A list containing the following elements:

- diststyle string, The diststyle to use for the table. One of "even", "all", or "key".
- distkey string, Distkey for this table in Redshift
- sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.

hidden  
boolean, The hidden status of the item.

---

 imports\_post\_files\_runs

*Start a run*


---

**Description**

Start a run

**Usage**

```
imports_post_files_runs(id)
```

**Arguments**

id                    integer required. The ID of the import.

**Value**

A list containing the following elements:

id	integer, The ID of the run.
importId	integer, The ID of the import.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

 imports\_post\_runs

*Run an import*


---

**Description**

Run an import

**Usage**

```
imports_post_runs(id)
```

**Arguments**

id                    integer required. The ID of the import to run.

**Value**

A list containing the following elements:

runId                    integer, The ID of the new run triggered.

---

imports\_post\_syncs      *Create a sync*

---

**Description**

Create a sync

**Usage**

```
imports_post_syncs(id, source, destination, advanced_options = NULL)
```

**Arguments**

id                        integer required.

source                    list required. A list containing the following elements:

- path string, The path of the dataset to sync from; for a database source, schema.tablename. If you are doing a Google Sheet export, this can be blank. This is a legacy parameter, it is recommended you use one of the following: databaseTable, file, googleWorksheet, salesforce
- databaseTable list . A list containing the following elements:
  - schema string, The database schema name.
  - table string, The database table name.
  - useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.
- file list .
- googleWorksheet list . A list containing the following elements:
  - spreadsheet string, The spreadsheet document name.
  - spreadsheetId string, The spreadsheet document id.
  - worksheet string, The worksheet tab name.
  - worksheetId integer, The worksheet tab id.
- salesforce list . A list containing the following elements:
  - objectName string, The Salesforce object name.

destination              list required. A list containing the following elements:

- path string, The schema.tablename to sync to. If you are doing a Google Sheet export, this is the spreadsheet and sheet name separated by a period. i.e. if you have a spreadsheet named "MySpreadsheet" and a sheet called "Sheet1" this field would be "MySpreadsheet.Sheet1". This is a legacy parameter, it is recommended you use one of the following: databaseTable, googleWorksheet

- databaseTable list . A list containing the following elements:
  - schema string, The database schema name.
  - table string, The database table name.
  - useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.
- googleWorksheet list . A list containing the following elements:
  - spreadsheet string, The spreadsheet document name.
  - spreadsheetId string, The spreadsheet document id.
  - worksheet string, The worksheet tab name.
  - worksheetId integer, The worksheet tab id.

#### advanced\_options

list optional. A list containing the following elements:

- maxErrors integer,
- existingTableRows string,
- diststyle string,
- distkey string,
- sortkey1 string,
- sortkey2 string,
- columnDelimiter string,
- columnOverrides object, Hash used for overriding auto-detected names and types, with keys being the index of the column being overridden.
- escaped boolean, If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.
- identityColumn string,
- rowChunkSize integer,
- wipeDestinationTable boolean,
- truncateLongLines boolean,
- invalidCharReplacement string,
- verifyTableRowCounts boolean,
- partitionColumnName string, This parameter is deprecated
- partitionSchemaName string, This parameter is deprecated
- partitionTableName string, This parameter is deprecated
- partitionTablePartitionColumnMinName string, This parameter is deprecated
- partitionTablePartitionColumnMaxName string, This parameter is deprecated
- lastModifiedColumn string,
- mysqlCatalogMatchesSchema boolean, This attribute is no longer available; defaults to true but cannot be used.
- chunkingMethod string, The method used to break the data into smaller chunks for transfer. The value can be set to sorted\_by\_identity\_columns or if not set the chunking method will be chosen automatically.
- firstRowIsHeader boolean,

- exportAction string, The kind of export action you want to have the export execute. Set to "newsprst" if you want a new worksheet inside a new spreadsheet. Set to "newwksht" if you want a new worksheet inside an existing spreadsheet. Set to "updatewksht" if you want to overwrite an existing worksheet inside an existing spreadsheet. Set to "appendwksht" if you want to append to the end of an existing worksheet inside an existing spreadsheet. Default is set to "newsprst"
- sqlQuery string, If you are doing a Google Sheet export, this is your SQL query.
- contactLists string,
- soqlQuery string,
- includeDeletedRecords boolean,

### Value

A list containing the following elements:

id	integer,
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of the table or file, if available.</li> <li>• path string, The path of the dataset to sync from; for a database source, schema.tablename. If you are doing a Google Sheet export, this can be blank. This is a legacy parameter, it is recommended you use one of the following: databaseTable, file, googleWorksheet, salesforce</li> <li>• databaseTable list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– schema string, The database schema name.</li> <li>– table string, The database table name.</li> <li>– useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.</li> </ul> </li> <li>• file list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– id integer, The file id.</li> </ul> </li> <li>• googleWorksheet list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– spreadsheet string, The spreadsheet document name.</li> <li>– spreadsheetId string, The spreadsheet document id.</li> <li>– worksheet string, The worksheet tab name.</li> <li>– worksheetId integer, The worksheet tab id.</li> </ul> </li> <li>• salesforce list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– objectName string, The Salesforce object name.</li> </ul> </li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• path string, The schema.tablename to sync to. If you are doing a Google Sheet export, this is the spreadsheet and sheet name separated by a period. i.e. if you have a spreadsheet named "MySpreadsheet" and a sheet called "Sheet1" this field would be "MySpreadsheet.Sheet1". This is a legacy parameter, it is recommended you use one of the following: databaseTable, googleWorksheet</li> </ul>

- databaseTable list . A list containing the following elements:
  - schema string, The database schema name.
  - table string, The database table name.
  - useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.
- googleWorksheet list . A list containing the following elements:
  - spreadsheet string, The spreadsheet document name.
  - spreadsheetId string, The spreadsheet document id.
  - worksheet string, The worksheet tab name.
  - worksheetId integer, The worksheet tab id.

#### advancedOptions

list, A list containing the following elements:

- maxErrors integer,
- existingTableRows string,
- diststyle string,
- distkey string,
- sortkey1 string,
- sortkey2 string,
- columnDelimiter string,
- columnOverrides object, Hash used for overriding auto-detected names and types, with keys being the index of the column being overridden.
- escaped boolean, If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.
- identityColumn string,
- rowChunkSize integer,
- wipeDestinationTable boolean,
- truncateLongLines boolean,
- invalidCharReplacement string,
- verifyTableRowCounts boolean,
- partitionColumnName string, This parameter is deprecated
- partitionSchemaName string, This parameter is deprecated
- partitionTableName string, This parameter is deprecated
- partitionTablePartitionColumnMinName string, This parameter is deprecated
- partitionTablePartitionColumnMaxName string, This parameter is deprecated
- lastModifiedColumn string,
- mysqlCatalogMatchesSchema boolean, This attribute is no longer available; defaults to true but cannot be used.
- chunkingMethod string, The method used to break the data into smaller chunks for transfer. The value can be set to sorted\_by\_identity\_columns or if not set the chunking method will be chosen automatically.
- firstRowIsHeader boolean,



- exportAction string, The kind of export action you want to have the export execute. Set to "newsprst" if you want a new worksheet inside a new spreadsheet. Set to "newwksht" if you want a new worksheet inside an existing spreadsheet. Set to "updatewksht" if you want to overwrite an existing worksheet inside an existing spreadsheet. Set to "appendwksht" if you want to append to the end of an existing worksheet inside an existing spreadsheet. Default is set to "newsprst"
- sqlQuery string, If you are doing a Google Sheet export, this is your SQL query.
- contactLists string,
- soqlQuery string,
- includeDeletedRecords boolean,

---

 imports\_put

*Update an import*


---

### Description

Update an import

### Usage

```
imports_put(
  id,
  name,
  sync_type,
  is_outbound,
  source = NULL,
  destination = NULL,
  schedule = NULL,
  notifications = NULL,
  parent_id = NULL,
  next_run_at = NULL,
  time_zone = NULL
)
```

### Arguments

id	integer required. The ID for the import.
name	string required. The name of the import.
sync_type	string required. The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.
is_outbound	boolean required.
source	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• remoteHostId integer,</li> </ul>

	<ul style="list-style-type: none"> <li>• credentialId integer,</li> <li>• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.</li> </ul>
destination	<p>list optional. A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• remoteHostId integer,</li> <li>• credentialId integer,</li> <li>• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.</li> </ul>
schedule	<p>list optional. A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	<p>list optional. A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
parent_id	integer optional. Parent id to trigger this import from
next_run_at	string optional. The time of the next scheduled run.
time_zone	string optional. The time zone of this import.

**Value**

A list containing the following elements:

name	string, The name of the import.
syncType	string, The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• remoteHostId integer,</li> <li>• credentialId integer,</li> <li>• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.</li> <li>• name string,</li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• remoteHostId integer,</li> <li>• credentialId integer,</li> <li>• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.</li> <li>• name string,</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> </ul>

	<ul style="list-style-type: none"> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
parentId	integer, Parent id to trigger this import from
id	integer, The ID for the import.
isOutbound	boolean,
jobType	string, The job type of this import.
syncs	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• source object,</li> <li>• destination object,</li> <li>• advancedOptions object,</li> </ul>
state	string,
createdAt	string,
updatedAt	string,
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this import.
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).

---

imports\_put\_archive     *Update the archive status of this object*

---

**Description**

Update the archive status of this object

**Usage**

```
imports_put_archive(id, status)
```

**Arguments**

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

name	string, The name of the import.
syncType	string, The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• remoteHostId integer,</li> <li>• credentialId integer,</li> <li>• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.</li> <li>• name string,</li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• remoteHostId integer,</li> <li>• credentialId integer,</li> <li>• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.</li> <li>• name string,</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> </ul>

	<ul style="list-style-type: none"> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
parentId	integer, Parent id to trigger this import from
id	integer, The ID for the import.
isOutbound	boolean,
jobType	string, The job type of this import.
syncs	<p>array, An array containing the following fields:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• source object,</li> <li>• destination object,</li> <li>• advancedOptions object,</li> </ul>
state	string,
createdAt	string,
updatedAt	string,
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
user	list, A list containing the following elements:

	<ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this import.
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).

---

imports\_put\_files\_csv *Replace all attributes of this CSV Import*

---

### Description

Replace all attributes of this CSV Import

### Usage

```
imports_put_files_csv(
  id,
  source,
  destination,
  first_row_is_header,
  name = NULL,
  column_delimiter = NULL,
  escaped = NULL,
  compression = NULL,
  existing_table_rows = NULL,
  max_errors = NULL,
  table_columns = NULL,
  loosen_types = NULL,
  execution = NULL,
  redshift_destination_options = NULL
)
```

**Arguments**

id	integer required. The ID for the import.
source	list required. A list containing the following elements: <ul style="list-style-type: none"> <li>• fileIds array, The file ID(s) to import, if importing Civis file(s).</li> <li>• storagePath list . A list containing the following elements: <ul style="list-style-type: none"> <li>– storageHostId integer, The ID of the source storage host.</li> <li>– credentialId integer, The ID of the credentials for the source storage host.</li> <li>– filePaths array, The file or directory path(s) within the bucket from which to import. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"If specifying a directory path, the job will import every file found under that path. All files must have the same column layout and file format (e.g., compression, columnDelimiter, etc.).</li> </ul> </li> </ul>
destination	list required. A list containing the following elements: <ul style="list-style-type: none"> <li>• schema string, The destination schema name.</li> <li>• table string, The destination table name.</li> <li>• remoteHostId integer, The ID of the destination database host.</li> <li>• credentialId integer, The ID of the credentials for the destination database.</li> <li>• primaryKeys array, A list of column(s) which together uniquely identify a row in the destination table. These columns must not contain NULL values. If the import mode is "upsert", this field is required; see the Civis Helpdesk article on "Advanced CSV Imports via the Civis API" for more information.</li> <li>• lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.</li> </ul>
first_row_is_header	boolean required. A boolean value indicating whether or not the first row of the source file is a header row.
name	string optional. The name of the import.
column_delimiter	string optional. The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
escaped	boolean optional. A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.
compression	string optional. The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".
existing_table_rows	string optional. The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".
max_errors	integer optional. The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.
table_columns	array optional. An array containing the following fields:



	<ul style="list-style-type: none"> <li>• name string, The column name.</li> <li>• sqlType string, The SQL type of the column.</li> </ul>
loosen_types	boolean optional. If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.
execution	string optional. In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.
redshift_destination_options	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• diststyle string, The diststyle to use for the table. One of "even", "all", or "key".</li> <li>• distkey string, Distkey for this table in Redshift</li> <li>• sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.</li> </ul>

## Value

A list containing the following elements:

id	integer, The ID for the import.
name	string, The name of the import.
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• fileIds array, The file ID(s) to import, if importing Civis file(s).</li> <li>• storagePath list . A list containing the following elements: <ul style="list-style-type: none"> <li>– storageHostId integer, The ID of the source storage host.</li> <li>– credentialId integer, The ID of the credentials for the source storage host.</li> <li>– filePaths array, The file or directory path(s) within the bucket from which to import. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"If specifying a directory path, the job will import every file found under that path. All files must have the same column layout and file format (e.g., compression, columnDelimiter, etc.).</li> </ul> </li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• schema string, The destination schema name.</li> <li>• table string, The destination table name.</li> <li>• remoteHostId integer, The ID of the destination database host.</li> <li>• credentialId integer, The ID of the credentials for the destination database.</li> <li>• primaryKeys array, A list of column(s) which together uniquely identify a row in the destination table. These columns must not contain NULL values. If the import mode is "upsert", this field is required; see the Civis Helpdesk article on "Advanced CSV Imports via the Civis API" for more information.</li> </ul>

- lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.

firstRowIsHeader	boolean, A boolean value indicating whether or not the first row of the source file is a header row.
columnDelimiter	string, The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
escaped	boolean, A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.
compression	string, The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".
existingTableRows	string, The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".
maxErrors	integer, The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.
tableColumns	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The column name.</li> <li>• sqlType string, The SQL type of the column.</li> </ul>
loosenTypes	boolean, If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.
execution	string, In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.
redshiftDestinationOptions	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• diststyle string, The diststyle to use for the table. One of "even", "all", or "key".</li> <li>• distkey string, Distkey for this table in Redshift</li> <li>• sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.</li> </ul>
hidden	boolean, The hidden status of the item.

---

 imports\_put\_files\_csv\_archive

*Update the archive status of this object*


---

**Description**

Update the archive status of this object

**Usage**

```
imports_put_files_csv_archive(id, status)
```

**Arguments**

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

id	integer, The ID for the import.
name	string, The name of the import.
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• fileIds array, The file ID(s) to import, if importing Civis file(s).</li> <li>• storagePath list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– storageHostId integer, The ID of the source storage host.</li> <li>– credentialId integer, The ID of the credentials for the source storage host.</li> <li>– filePaths array, The file or directory path(s) within the bucket from which to import. E.g. the file_path for "s3://mybucket/files/all/" would be "/files/all/"If specifying a directory path, the job will import every file found under that path. All files must have the same column layout and file format (e.g., compression, columnDelimiter, etc.).</li> </ul> </li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• schema string, The destination schema name.</li> <li>• table string, The destination table name.</li> <li>• remoteHostId integer, The ID of the destination database host.</li> <li>• credentialId integer, The ID of the credentials for the destination database.</li> <li>• primaryKeys array, A list of column(s) which together uniquely identify a row in the destination table. These columns must not contain NULL values. If the import mode is "upsert", this field is required; see the Civis Helpdesk article on "Advanced CSV Imports via the Civis API" for more information.</li> </ul>

- lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.

firstRowIsHeader	boolean, A boolean value indicating whether or not the first row of the source file is a header row.
columnDelimiter	string, The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
escaped	boolean, A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.
compression	string, The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".
existingTableRows	string, The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".
maxErrors	integer, The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.
tableColumns	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The column name.</li> <li>• sqlType string, The SQL type of the column.</li> </ul>
loosenTypes	boolean, If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.
execution	string, In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.
redshiftDestinationOptions	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• diststyle string, The diststyle to use for the table. One of "even", "all", or "key".</li> <li>• distkey string, Distkey for this table in Redshift</li> <li>• sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.</li> </ul>
hidden	boolean, The hidden status of the item.

---

imports\_put\_projects *Add an Import to a project*

---

**Description**

Add an Import to a project

**Usage**

```
imports_put_projects(id, project_id)
```

**Arguments**

id	integer required. The ID of the Import.
project_id	integer required. The ID of the project.

**Value**

An empty HTTP response

---

imports\_put\_shares\_groups  
*Set the permissions groups has on this object*

---

**Description**

Set the permissions groups has on this object

**Usage**

```
imports_put_shares_groups(  
  id,  
  group_ids,  
  permission_level,  
  share_email_body = NULL,  
  send_shared_email = NULL  
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

imports\_put\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
imports_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>user_ids</code>	array required. An array of one or more user IDs.
<code>permission_level</code>	string required. Options are: "read", "write", or "manage".
<code>share_email_body</code>	string optional. Custom body text for e-mail sent on a share.
<code>send_shared_email</code>	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

<code>readers</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
<code>writers</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
<code>owners</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
<code>totalUserShares</code>	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
<code>totalGroupShares</code>	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

<code>imports_put_syncs</code>	<i>Update a sync</i>
--------------------------------	----------------------

---

**Description**

Update a sync

**Usage**

```
imports_put_syncs(id, sync_id, source, destination, advanced_options = NULL)
```

**Arguments**

id	integer required. The ID of the import to fetch.
sync_id	integer required. The ID of the sync to fetch.
source	list required. A list containing the following elements: <ul style="list-style-type: none"> <li>• path string, The path of the dataset to sync from; for a database source, schema.tablename. If you are doing a Google Sheet export, this can be blank. This is a legacy parameter, it is recommended you use one of the following: databaseTable, file, googleWorksheet, salesforce</li> <li>• databaseTable list . A list containing the following elements: <ul style="list-style-type: none"> <li>– schema string, The database schema name.</li> <li>– table string, The database table name.</li> <li>– useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.</li> </ul> </li> <li>• file list .</li> <li>• googleWorksheet list . A list containing the following elements: <ul style="list-style-type: none"> <li>– spreadsheet string, The spreadsheet document name.</li> <li>– spreadsheetId string, The spreadsheet document id.</li> <li>– worksheet string, The worksheet tab name.</li> <li>– worksheetId integer, The worksheet tab id.</li> </ul> </li> <li>• salesforce list . A list containing the following elements: <ul style="list-style-type: none"> <li>– objectName string, The Salesforce object name.</li> </ul> </li> </ul>
destination	list required. A list containing the following elements: <ul style="list-style-type: none"> <li>• path string, The schema.tablename to sync to. If you are doing a Google Sheet export, this is the spreadsheet and sheet name separated by a period. i.e. if you have a spreadsheet named "MySpreadsheet" and a sheet called "Sheet1" this field would be "MySpreadsheet.Sheet1". This is a legacy parameter, it is recommended you use one of the following: databaseTable, googleWorksheet</li> <li>• databaseTable list . A list containing the following elements: <ul style="list-style-type: none"> <li>– schema string, The database schema name.</li> <li>– table string, The database table name.</li> <li>– useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.</li> </ul> </li> <li>• googleWorksheet list . A list containing the following elements: <ul style="list-style-type: none"> <li>– spreadsheet string, The spreadsheet document name.</li> <li>– spreadsheetId string, The spreadsheet document id.</li> <li>– worksheet string, The worksheet tab name.</li> <li>– worksheetId integer, The worksheet tab id.</li> </ul> </li> </ul>
advanced_options	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• maxErrors integer,</li> <li>• existingTableRows string,</li> </ul>



- diststyle string,
- distkey string,
- sortkey1 string,
- sortkey2 string,
- columnDelimiter string,
- columnOverrides object, Hash used for overriding auto-detected names and types, with keys being the index of the column being overridden.
- escaped boolean, If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.
- identityColumn string,
- rowChunkSize integer,
- wipeDestinationTable boolean,
- truncateLongLines boolean,
- invalidCharReplacement string,
- verifyTableRowCounts boolean,
- partitionColumnName string, This parameter is deprecated
- partitionSchemaName string, This parameter is deprecated
- partitionTableName string, This parameter is deprecated
- partitionTablePartitionColumnMinName string, This parameter is deprecated
- partitionTablePartitionColumnMaxName string, This parameter is deprecated
- lastModifiedColumn string,
- mysqlCatalogMatchesSchema boolean, This attribute is no longer available; defaults to true but cannot be used.
- chunkingMethod string, The method used to break the data into smaller chunks for transfer. The value can be set to `sorted_by_identity_columns` or if not set the chunking method will be chosen automatically.
- firstRowIsHeader boolean,
- exportAction string, The kind of export action you want to have the export execute. Set to "newsprsh" if you want a new worksheet inside a new spreadsheet. Set to "newwksht" if you want a new worksheet inside an existing spreadsheet. Set to "updatewksht" if you want to overwrite an existing worksheet inside an existing spreadsheet. Set to "appendwksht" if you want to append to the end of an existing worksheet inside an existing spreadsheet. Default is set to "newsprsh"
- sqlQuery string, If you are doing a Google Sheet export, this is your SQL query.
- contactLists string,
- soqlQuery string,
- includeDeletedRecords boolean,

### Value

A list containing the following elements:

id	integer,
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of the table or file, if available.</li> <li>• path string, The path of the dataset to sync from; for a database source, schema.tablename. If you are doing a Google Sheet export, this can be blank. This is a legacy parameter, it is recommended you use one of the following: databaseTable, file, googleWorksheet, salesforce</li> <li>• databaseTable list . A list containing the following elements: <ul style="list-style-type: none"> <li>– schema string, The database schema name.</li> <li>– table string, The database table name.</li> <li>– useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.</li> </ul> </li> <li>• file list . A list containing the following elements: <ul style="list-style-type: none"> <li>– id integer, The file id.</li> </ul> </li> <li>• googleWorksheet list . A list containing the following elements: <ul style="list-style-type: none"> <li>– spreadsheet string, The spreadsheet document name.</li> <li>– spreadsheetId string, The spreadsheet document id.</li> <li>– worksheet string, The worksheet tab name.</li> <li>– worksheetId integer, The worksheet tab id.</li> </ul> </li> <li>• salesforce list . A list containing the following elements: <ul style="list-style-type: none"> <li>– objectName string, The Salesforce object name.</li> </ul> </li> </ul>
destination	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• path string, The schema.tablename to sync to. If you are doing a Google Sheet export, this is the spreadsheet and sheet name separated by a period. i.e. if you have a spreadsheet named "MySpreadsheet" and a sheet called "Sheet1" this field would be "MySpreadsheet.Sheet1". This is a legacy parameter, it is recommended you use one of the following: databaseTable, googleWorksheet</li> <li>• databaseTable list . A list containing the following elements: <ul style="list-style-type: none"> <li>– schema string, The database schema name.</li> <li>– table string, The database table name.</li> <li>– useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.</li> </ul> </li> <li>• googleWorksheet list . A list containing the following elements: <ul style="list-style-type: none"> <li>– spreadsheet string, The spreadsheet document name.</li> <li>– spreadsheetId string, The spreadsheet document id.</li> <li>– worksheet string, The worksheet tab name.</li> <li>– worksheetId integer, The worksheet tab id.</li> </ul> </li> </ul>
advancedOptions	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• maxErrors integer,</li> <li>• existingTableRows string,</li> <li>• diststyle string,</li> </ul>

- distkey string,
- sortkey1 string,
- sortkey2 string,
- columnDelimiter string,
- columnOverrides object, Hash used for overriding auto-detected names and types, with keys being the index of the column being overridden.
- escaped boolean, If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.
- identityColumn string,
- rowChunkSize integer,
- wipeDestinationTable boolean,
- truncateLongLines boolean,
- invalidCharReplacement string,
- verifyTableRowCounts boolean,
- partitionColumnName string, This parameter is deprecated
- partitionSchemaName string, This parameter is deprecated
- partitionTableName string, This parameter is deprecated
- partitionTablePartitionColumnMinName string, This parameter is deprecated
- partitionTablePartitionColumnMaxName string, This parameter is deprecated
- lastModifiedColumn string,
- mysqlCatalogMatchesSchema boolean, This attribute is no longer available; defaults to true but cannot be used.
- chunkingMethod string, The method used to break the data into smaller chunks for transfer. The value can be set to `sorted_by_identity_columns` or if not set the chunking method will be chosen automatically.
- firstRowIsHeader boolean,
- exportAction string, The kind of export action you want to have the export execute. Set to "newsprsht" if you want a new worksheet inside a new spreadsheet. Set to "newwksht" if you want a new worksheet inside an existing spreadsheet. Set to "updatewksht" if you want to overwrite an existing worksheet inside an existing spreadsheet. Set to "appendwksht" if you want to append to the end of an existing worksheet inside an existing spreadsheet. Default is set to "newsprsht"
- sqlQuery string, If you are doing a Google Sheet export, this is your SQL query.
- contactLists string,
- soqlQuery string,
- includeDeletedRecords boolean,

---

 imports\_put\_syncs\_archive

*Update the archive status of this sync*


---

### Description

Update the archive status of this sync

### Usage

```
imports_put_syncs_archive(id, sync_id, status = NULL)
```

### Arguments

id	integer required. The ID of the import to fetch.
sync_id	integer required. The ID of the sync to fetch.
status	boolean optional. The desired archived status of the sync.

### Value

A list containing the following elements:

id	integer,
source	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of the table or file, if available.</li> <li>• path string, The path of the dataset to sync from; for a database source, schema.tablename. If you are doing a Google Sheet export, this can be blank. This is a legacy parameter, it is recommended you use one of the following: databaseTable, file, googleWorksheet, salesforce</li> <li>• databaseTable list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– schema string, The database schema name.</li> <li>– table string, The database table name.</li> <li>– useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.</li> </ul> </li> <li>• file list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– id integer, The file id.</li> </ul> </li> <li>• googleWorksheet list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– spreadsheet string, The spreadsheet document name.</li> <li>– spreadsheetId string, The spreadsheet document id.</li> <li>– worksheet string, The worksheet tab name.</li> <li>– worksheetId integer, The worksheet tab id.</li> </ul> </li> <li>• salesforce list . A list containing the following elements:           <ul style="list-style-type: none"> <li>– objectName string, The Salesforce object name.</li> </ul> </li> </ul>
destination	list, A list containing the following elements:

- path string, The schema.tablename to sync to. If you are doing a Google Sheet export, this is the spreadsheet and sheet name separated by a period. i.e. if you have a spreadsheet named "MySpreadsheet" and a sheet called "Sheet1" this field would be "MySpreadsheet.Sheet1". This is a legacy parameter, it is recommended you use one of the following: databaseTable, googleWorksheet
- databaseTable list . A list containing the following elements:
  - schema string, The database schema name.
  - table string, The database table name.
  - useWithoutSchema boolean, This attribute is no longer available; defaults to false but cannot be used.
- googleWorksheet list . A list containing the following elements:
  - spreadsheet string, The spreadsheet document name.
  - spreadsheetId string, The spreadsheet document id.
  - worksheet string, The worksheet tab name.
  - worksheetId integer, The worksheet tab id.

#### advancedOptions

list, A list containing the following elements:

- maxErrors integer,
- existingTableRows string,
- diststyle string,
- distkey string,
- sortkey1 string,
- sortkey2 string,
- columnDelimiter string,
- columnOverrides object, Hash used for overriding auto-detected names and types, with keys being the index of the column being overridden.
- escaped boolean, If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.
- identityColumn string,
- rowChunkSize integer,
- wipeDestinationTable boolean,
- truncateLongLines boolean,
- invalidCharReplacement string,
- verifyTableRowCounts boolean,
- partitionColumnName string, This parameter is deprecated
- partitionSchemaName string, This parameter is deprecated
- partitionTableName string, This parameter is deprecated
- partitionTablePartitionColumnMinName string, This parameter is deprecated
- partitionTablePartitionColumnMaxName string, This parameter is deprecated
- lastModifiedColumn string,

- `mysqlCatalogMatchesSchema` boolean, This attribute is no longer available; defaults to true but cannot be used.
- `chunkingMethod` string, The method used to break the data into smaller chunks for transfer. The value can be set to `sorted_by_identity_columns` or if not set the chunking method will be chosen automatically.
- `firstRowIsHeader` boolean,
- `exportAction` string, The kind of export action you want to have the export execute. Set to `"newsprsht"` if you want a new worksheet inside a new spreadsheet. Set to `"newwksht"` if you want a new worksheet inside an existing spreadsheet. Set to `"updatewksht"` if you want to overwrite an existing worksheet inside an existing spreadsheet. Set to `"appendwksht"` if you want to append to the end of an existing worksheet inside an existing spreadsheet. Default is set to `"newsprsht"`
- `sqlQuery` string, If you are doing a Google Sheet export, this is your SQL query.
- `contactLists` string,
- `soqlQuery` string,
- `includeDeletedRecords` boolean,

---

`jobs_delete_projects` *Remove a Job from a project*

---

### Description

Remove a Job from a project

### Usage

```
jobs_delete_projects(id, project_id)
```

### Arguments

<code>id</code>	integer required. The ID of the Job.
<code>project_id</code>	integer required. The ID of the project.

### Value

An empty HTTP response

---

jobs\_delete\_runs      *Cancel a run*

---

**Description**

Cancel a run

**Usage**

```
jobs_delete_runs(id, run_id)
```

**Arguments**

id	integer required. The ID of the Job.
run_id	integer required. The ID of the Run.

**Value**

An empty HTTP response

---

jobs\_delete\_shares\_groups  
*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
jobs_delete_shares_groups(id, group_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

jobs\_delete\_shares\_users  
*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

jobs\_delete\_shares\_users(id, user\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

jobs\_get                      *Show basic job info*

---

**Description**

Show basic job info

**Usage**

jobs\_get(id)

**Arguments**

id	integer required. The ID for this job.
----	--

**Value**

A list containing the following elements:

id	integer,
name	string,
type	string,
fromTemplateId	integer,
state	string, Whether the job is idle, queued, running, cancelled, or failed.



createdAt	string,
updatedAt	string,
runs	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
successEmailSubject	string,
successEmailBody	string,
runningAsUser	string,
runByUser	string,
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>

---

 jobs\_get\_runs

*Check status of a job*


---

### Description

Check status of a job

### Usage

```
jobs_get_runs(id, run_id)
```

**Arguments**

id	integer required. The ID of the Job.
run_id	integer required. The ID of the Run.

**Value**

A list containing the following elements:

id	integer,
state	string,
createdAt	string, The time that the run was queued.
startedAt	string, The time that the run started.
finishedAt	string, The time that the run completed.
error	string, The error message for this run, if present.

---

 jobs\_list

*List Jobs*


---

**Description**

List Jobs

**Usage**

```
jobs_list(
  state = NULL,
  type = NULL,
  q = NULL,
  permission = NULL,
  scheduled = NULL,
  hidden = NULL,
  archived = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

state	string optional. The job's state. One or more of queued, running, succeeded, failed, and cancelled. Specify multiple values as a comma-separated list (e.g., "A,B").
type	string optional. The job's type. Specify multiple values as a comma-separated list (e.g., "A,B").

q	string optional. Query string to search on the id, name, and job type.
permission	string optional. A permissions string, one of "read", "write", or "manage". Lists only jobs for which the current user has that permission.
scheduled	boolean optional. If the item is scheduled.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
archived	string optional. The archival status of the requested item(s).
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

### Value

An array containing the following fields:

id	integer,
name	string,
type	string,
fromTemplateId	integer,
state	string, Whether the job is idle, queued, running, cancelled, or failed.
createdAt	string,
updatedAt	string,
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
archived	string, The archival status of the requested item(s).
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>

---

jobs\_list\_children      *Show nested tree of children that this job triggers*

---

### Description

Show nested tree of children that this job triggers

### Usage

```
jobs_list_children(id)
```

### Arguments

id                      integer required. The ID for this job.

### Value

A list containing the following elements:

id	integer,
name	string,
type	string,
fromTemplateId	integer,
state	string,
createdAt	string,
updatedAt	string,
runs	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
children	array,

---

jobs\_list\_parents      *Show chain of parents as a list that this job triggers from*

---

### Description

Show chain of parents as a list that this job triggers from

### Usage

```
jobs_list_parents(id)
```

### Arguments

id                      integer required. The ID for this job.

### Value

A list containing the following elements:

id	integer,
name	string,
type	string,
fromTemplateId	integer,
state	string, Whether the job is idle, queued, running, cancelled, or failed.
createdAt	string,
updatedAt	string,
runs	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).

successEmailSubject	string,
successEmailBody	string,
runningAsUser	string,
runByUser	string,
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>

---

jobs\_list\_projects      *List the projects a Job belongs to*

---

### Description

List the projects a Job belongs to

### Usage

```
jobs_list_projects(id, hidden = NULL)
```

### Arguments

id	integer required. The ID of the Job.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

### Value

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.

users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

jobs\_list\_runs      *List runs for the given job*

---

### Description

List runs for the given job

### Usage

```
jobs_list_runs(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

### Arguments

id	integer required. The ID for this job.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer,
state	string,
createdAt	string, The time that the run was queued.
startedAt	string, The time that the run started.
finishedAt	string, The time that the run completed.
error	string, The error message for this run, if present.

---

jobs\_list\_runs\_logs    *Get the logs for a run*

---

**Description**

Get the logs for a run

**Usage**

```
jobs_list_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

id	integer required. The ID of the job.
run_id	integer required. The ID of the run.
last_id	integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit	integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

id	integer, The ID of the log.
createdAt	string, The time the log was created.
message	string, The log message.
level	string, The level of the log. One of unknown,fatal,error,warn,info,debug.



---

`jobs_list_runs_outputs`*List the outputs for a run*

---

**Description**

List the outputs for a run

**Usage**

```
jobs_list_runs_outputs(  
  id,  
  run_id,  
  limit = NULL,  
  page_num = NULL,  
  order = NULL,  
  order_dir = NULL  
)
```

**Arguments**

<code>id</code>	integer required. The ID of the job.
<code>run_id</code>	integer required. The ID of the run.
<code>limit</code>	integer optional. Number of results to return. Defaults to its maximum of 50.
<code>page_num</code>	integer optional. Page number of the results to return. Defaults to the first page, 1.
<code>order</code>	string optional. The field on which to order the result set. Defaults to <code>created_at</code> . Must be one of: <code>created_at</code> , <code>id</code> .
<code>order_dir</code>	string optional. Direction in which to sort, either <code>asc</code> (ascending) or <code>desc</code> (descending) defaulting to <code>desc</code> .

**Value**

An array containing the following fields:

<code>objectType</code>	string, The type of the output. Valid values are <code>File</code> , <code>Table</code> , <code>Report</code> , <code>Project</code> , <code>Credential</code> , or <code>JSONValue</code>
<code>objectId</code>	integer, The ID of the output.
<code>name</code>	string, The name of the output.
<code>link</code>	string, The hypermedia link to the output.
<code>value</code>	string,

---

jobs_list_shares	<i>List users and groups permissioned on this object</i>
------------------	--

---

### Description

List users and groups permissioned on this object

### Usage

```
jobs_list_shares(id)
```

### Arguments

id	integer required. The ID of the resource that is shared.
----	--

### Value

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

jobs\_list\_workflows    *List the workflows a job belongs to*

---

### Description

List the workflows a job belongs to

### Usage

```
jobs_list_workflows(id, archived = NULL)
```

### Arguments

id	integer required.
archived	string optional. The archival status of the requested item(s).

### Value

An array containing the following fields:

id	integer, The ID for this workflow.
name	string, The name of this workflow.
description	string, A description of the workflow.
valid	boolean, The validity of the workflow definition.
fileId	string, The file id for the s3 file containing the workflow configuration.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
allowConcurrentExecutions	boolean, Whether the workflow can execute when already running.
timeZone	string, The time zone of this workflow.

nextExecutionAt	string, The time of the next scheduled execution.
archived	string, The archival status of the requested item(s).
createdAt	string,
updatedAt	string,

---

jobs_post_runs	<i>Run a job</i>
----------------	------------------

---

### Description

Run a job

### Usage

```
jobs_post_runs(id)
```

### Arguments

id	integer required. The ID for this job.
----	--

### Value

A list containing the following elements:

id	integer,
state	string,
createdAt	string, The time that the run was queued.
startedAt	string, The time that the run started.
finishedAt	string, The time that the run completed.
error	string, The error message for this run, if present.

---

`jobs_post_trigger_email`*Generate and retrieve trigger email address*

---

**Description**

Generate and retrieve trigger email address

**Usage**`jobs_post_trigger_email(id)`**Arguments**

`id` integer required. The ID for this job.

**Value**

A list containing the following elements:

`triggerEmail` string, Email address which may be used to trigger this job to run.

---

`jobs_put_archive`*Update the archive status of this object*

---

**Description**

Update the archive status of this object

**Usage**`jobs_put_archive(id, status)`**Arguments**

`id` integer required. The ID of the object.

`status` boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

id	integer,
name	string,
type	string,
fromTemplateId	integer,
state	string, Whether the job is idle, queued, running, cancelled, or failed.
createdAt	string,
updatedAt	string,
runs	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
successEmailSubject	string,
successEmailBody	string,
runningAsUser	string,
runByUser	string,
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>

---

jobs\_put\_projects      *Add a Job to a project*

---

**Description**

Add a Job to a project

**Usage**

```
jobs_put_projects(id, project_id)
```

**Arguments**

id                    integer required. The ID of the Job.  
project\_id          integer required. The ID of the project.

**Value**

An empty HTTP response

---

jobs\_put\_shares\_groups      *Set the permissions groups has on this object*

---

**Description**

Set the permissions groups has on this object

**Usage**

```
jobs_put_shares_groups(  
  id,  
  group_ids,  
  permission_level,  
  share_email_body = NULL,  
  send_shared_email = NULL  
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

jobs\_put\_shares\_users *Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
jobs_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```



**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

json\_values\_delete\_shares\_groups

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

json\_values\_delete\_shares\_groups(id, group\_id)

**Arguments**

id integer required. The ID of the resource that is shared.  
group\_id integer required. The ID of the group.

**Value**

An empty HTTP response

---

json\_values\_delete\_shares\_users  
*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
json_values_delete_shares_users(id, user_id)
```

**Arguments**

id integer required. The ID of the resource that is shared.  
user\_id integer required. The ID of the user.

**Value**

An empty HTTP response

---

json\_values\_get *Get details about a JSON Value*

---

**Description**

Get details about a JSON Value

**Usage**

```
json_values_get(id)
```

**Arguments**

id integer required. The ID of the JSON Value.

**Value**

A list containing the following elements:

id	integer, The ID of the JSON Value.
name	string, The name of the JSON Value.
value	string, The deserialized JSON value.

---

json\_values\_list\_shares

*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

json\_values\_list\_shares(id)

**Arguments**

id integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

json\_values\_patch      *Update some attributes of this JSON Value*

---

### Description

Update some attributes of this JSON Value

### Usage

```
json_values_patch(id, name = NULL, value_str = NULL)
```

### Arguments

id	integer required. The ID of the JSON Value.
name	string optional. The name of the JSON Value.
value_str	string optional. The JSON value to store. Should be a serialized JSON string. Limited to 1000000 bytes.

### Value

A list containing the following elements:

id	integer, The ID of the JSON Value.
name	string, The name of the JSON Value.
value	string, The deserialized JSON value.

---

json\_values\_post      *Create a JSON Value*

---

### Description

Create a JSON Value

### Usage

```
json_values_post(value_str, name = NULL)
```

### Arguments

value_str	string required. The JSON value to store. Should be a serialized JSON string. Limited to 1000000 bytes.
name	string optional. The name of the JSON Value.

**Value**

A list containing the following elements:

id	integer, The ID of the JSON Value.
name	string, The name of the JSON Value.
value	string, The deserialized JSON value.

---

json\_values\_put\_shares\_groups

*Set the permissions groups has on this object*

---

**Description**

Set the permissions groups has on this object

**Usage**

```
json_values_put_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> </ul>

	<ul style="list-style-type: none"> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

json\_values\_put\_shares\_users

*Set the permissions users have on this object*

---

## Description

Set the permissions users have on this object

## Usage

```
json_values_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

## Arguments

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

match\_targets\_delete\_shares\_groups

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
match_targets_delete_shares_groups(id, group_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

match\_targets\_delete\_shares\_users

*Revoke the permissions a user has on this object*

---

### Description

Revoke the permissions a user has on this object

### Usage

match\_targets\_delete\_shares\_users(id, user\_id)

### Arguments

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

### Value

An empty HTTP response

---

match\_targets\_get

*Show Match Target info*

---

### Description

Show Match Target info

### Usage

match\_targets\_get(id)

### Arguments

id	integer required. The ID of the match target
----	--

### Value

A list containing the following elements:

id	integer, The ID of the match target
name	string, The name of the match target
targetFileName	string, The name of the target file
createdAt	string,
updatedAt	string,
archived	boolean, Whether the match target has been archived.



---

match\_targets\_list     *List match targets*

---

**Description**

List match targets

**Usage**

match\_targets\_list()

**Value**

An array containing the following fields:

id	integer, The ID of the match target
name	string, The name of the match target
targetFileName	string, The name of the target file
createdAt	string,
updatedAt	string,
archived	boolean, Whether the match target has been archived.

---

match\_targets\_list\_shares  
*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

match\_targets\_list\_shares(id)

**Arguments**

id                    integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

match\_targets\_patch    *Update a match target*

---

**Description**

Update a match target

**Usage**

```
match_targets_patch(id, name = NULL, target_file_name = NULL, archived = NULL)
```

**Arguments**

id	integer required. The ID of the match target
name	string optional. The name of the match target
target_file_name	string optional. The name of the target file
archived	boolean optional. Whether the match target has been archived.

**Value**

A list containing the following elements:

id	integer, The ID of the match target
name	string, The name of the match target
targetFileName	string, The name of the target file
createdAt	string,
updatedAt	string,
archived	boolean, Whether the match target has been archived.

---

match_targets_post	<i>Create a new match target</i>
--------------------	----------------------------------

---

**Description**

Create a new match target

**Usage**

```
match_targets_post(name, target_file_name = NULL, archived = NULL)
```

**Arguments**

name	string required. The name of the match target
target_file_name	string optional. The name of the target file
archived	boolean optional. Whether the match target has been archived.

**Value**

A list containing the following elements:

id	integer, The ID of the match target
name	string, The name of the match target
targetFileName	string, The name of the target file
createdAt	string,
updatedAt	string,
archived	boolean, Whether the match target has been archived.

---

match\_targets\_put\_archive

*Update the archive status of this object*

---

### Description

Update the archive status of this object

### Usage

```
match_targets_put_archive(id, status)
```

### Arguments

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

### Value

A list containing the following elements:

id	integer, The ID of the match target
name	string, The name of the match target
targetFileName	string, The name of the target file
createdAt	string,
updatedAt	string,
archived	boolean, Whether the match target has been archived.

---

match\_targets\_put\_shares\_groups

*Set the permissions groups has on this object*

---

### Description

Set the permissions groups has on this object

### Usage

```
match_targets_put_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

match\_targets\_put\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
match_targets_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

media\_delete\_optimizations\_runs

*Cancel a run*

---

**Description**

Cancel a run

**Usage**

media\_delete\_optimizations\_runs(id, run\_id)

**Arguments**

id	integer required. The ID of the optimization.
run_id	integer required. The ID of the run.

**Value**

An empty HTTP response

---

media\_delete\_optimizations\_shares\_groups  
*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
media_delete_optimizations_shares_groups(id, group_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

media\_delete\_optimizations\_shares\_users  
*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
media_delete_optimizations_shares_users(id, user_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

media\_delete\_ratecards\_shares\_groups

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

media\_delete\_ratecards\_shares\_groups(id, group\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

media\_delete\_ratecards\_shares\_users

*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

media\_delete\_ratecards\_shares\_users(id, user\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response



---

media\_delete\_spot\_orders\_shares\_groups  
*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
media_delete_spot_orders_shares_groups(id, group_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

media\_delete\_spot\_orders\_shares\_users  
*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
media_delete_spot_orders_shares_users(id, user_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

 media\_get\_optimizations

*Show a single optimization*


---

### Description

Show a single optimization

### Usage

```
media_get_optimizations(id)
```

### Arguments

id integer required. The optimization ID.

### Value

A list containing the following elements:

id	integer, The optimization ID.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of the optimization.
createdAt	string,
updatedAt	string,
finishedAt	string, The end time of the last run.
state	string, The state of the last run.
lastRunId	integer, The ID of the last run.
spotOrderId	integer, The ID for the spot order produced by the optimization.
archived	string, The archival status of the requested item(s).
reportLink	string, A link to the visual report for the optimization.
spotOrderLink	string, A link to the json version of the spot order.
fileLinks	array, Links to the csv and xml versions of the spot order.
runs	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• marketId integer, The market ID.</li> <li>• startDate string, The start date for the media run.</li> <li>• endDate string, The end date for the media run.</li> </ul>

	<ul style="list-style-type: none"> <li>• forceCpm boolean, Whether to force optimization to use CPM data even if partition data is available.</li> <li>• reachAlpha number, A tuning parameter used to adjust RF.</li> <li>• syscodes array, The syscodes for the media run.</li> <li>• rateCards array, The ratecards for the media run.</li> <li>• constraints array, The constraints for the media run.</li> </ul>
programs	array, An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.
networks	array, An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.
excludePrograms	boolean, If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.
excludeNetworks	boolean, If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.
timeSlotPercentages	list, The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.

---

media\_get\_optimizations\_runs

*Check status of a run*

---

## Description

Check status of a run

## Usage

```
media_get_optimizations_runs(id, run_id)
```

## Arguments

id	integer required. The ID of the optimization.
run_id	integer required. The ID of the run.

**Value**

A list containing the following elements:

id	integer, The ID of the run.
optimizationId	integer, The ID of the optimization.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

media_get_ratecards	<i>Get a Ratecard</i>
---------------------	-----------------------

---

**Description**

Get a Ratecard

**Usage**

```
media_get_ratecards(id)
```

**Arguments**

id	integer required.
----	-------------------

**Value**

A list containing the following elements:

id	integer, The ratecard ID.
filename	string, Name of the ratecard file.
startOn	string, First day to which the ratecard applies.
endOn	string, Last day to which the ratecard applies.
dmaNumber	integer, Number of the DMA associated with the ratecard.
archived	string, The archival status of the requested item(s).

---

media\_get\_spot\_orders *Show a single spot order*

---

**Description**

Show a single spot order

**Usage**

```
media_get_spot_orders(id)
```

**Arguments**

id integer required. The ID for the spot order.

**Value**

A list containing the following elements:

id	integer, The ID for the spot order.
archived	string, The archival status of the requested item(s).
csvS3Uri	string, S3 URI for the spot order CSV file.
jsonS3Uri	string, S3 URI for the spot order JSON file.
xmlArchiveS3Uri	string, S3 URI for the spot order XML archive.
lastTransformJobId	integer, ID of the spot order transformation job.

---

media\_list\_dmas *List all Designated Market Areas*

---

**Description**

List all Designated Market Areas

**Usage**

```
media_list_dmas(name = NULL, number = NULL)
```

**Arguments**

name	string optional. If specified, will be used to filter the DMAs returned. Substring matching is supported with "%" and "*" wildcards (e.g., "name=%region%" will return both "region1" and "my region").
number	integer optional. If specified, will be used to filter the DMAS by number.

**Value**

An array containing the following fields:

name	string, Name for the DMA region.
number	integer, Identifier number for a DMA.

---

media\_list\_optimizations

*List all optimizations*

---

**Description**

List all optimizations

**Usage**

```
media_list_optimizations(
  archived = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

archived	string optional. The archival status of the requested item(s).
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, author, name.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The optimization ID.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> </ul>

	<ul style="list-style-type: none"> <li>initials string, This user's initials.</li> <li>online boolean, Whether this user is online.</li> </ul>
name	string, The name of the optimization.
createdAt	string,
updatedAt	string,
finishedAt	string, The end time of the last run.
state	string, The state of the last run.
lastRunId	integer, The ID of the last run.
spotOrderId	integer, The ID for the spot order produced by the optimization.
archived	string, The archival status of the requested item(s).

---

media\_list\_optimizations\_runs

*List runs for the given optimization*

---

## Description

List runs for the given optimization

## Usage

```
media_list_optimizations_runs(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

## Arguments

id	integer required. The ID of the optimization.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The ID of the run.
optimizationId	integer, The ID of the optimization.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

media\_list\_optimizations\_runs\_logs  
*Get the logs for a run*

---

**Description**

Get the logs for a run

**Usage**

```
media_list_optimizations_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

id	integer required. The ID of the optimization.
run_id	integer required. The ID of the run.
last_id	integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit	integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

id	integer, The ID of the log.
createdAt	string, The time the log was created.
message	string, The log message.
level	string, The level of the log. One of unknown,fatal,error,warn,info,debug.



---

`media_list_optimizations_shares`*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**`media_list_optimizations_shares(id)`**Arguments**

`id` integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

`readers` list, A list containing the following elements:

- users array,
- groups array,

`writers` list, A list containing the following elements:

- users array,
- groups array,

`owners` list, A list containing the following elements:

- users array,
- groups array,

`totalUserShares`

integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

`totalGroupShares`

integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

media\_list\_ratecards *List all ratecards*

---

### Description

List all ratecards

### Usage

```
media_list_ratecards(archived = NULL, filename = NULL, dma_number = NULL)
```

### Arguments

archived	string optional. The archival status of the requested item(s).
filename	string optional. If specified, will be used to filter the ratecards returned. Sub-string matching is supported with "%" and "*" wildcards (e.g., "filename=%ratecard%" will return both "ratecard 1" and "my ratecard").
dma_number	integer optional. If specified, will be used to filter the ratecards by DMA.

### Value

An array containing the following fields:

id	integer, The ratecard ID.
filename	string, Name of the ratecard file.
startOn	string, First day to which the ratecard applies.
endOn	string, Last day to which the ratecard applies.
dmaNumber	integer, Number of the DMA associated with the ratecard.
archived	string, The archival status of the requested item(s).

---

media\_list\_ratecards\_shares

*List users and groups permissioned on this object*

---

### Description

List users and groups permissioned on this object

### Usage

```
media_list_ratecards_shares(id)
```

### Arguments

id	integer required. The ID of the resource that is shared.
----	--

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

media\_list\_spot\_orders

*List all spot orders*

---

**Description**

List all spot orders

**Usage**

media\_list\_spot\_orders(id = NULL, archived = NULL)

**Arguments**

id	integer optional. The ID for the spot order.
archived	string optional. The archival status of the requested item(s).

**Value**

An array containing the following fields:

id	integer, The ID for the spot order.
archived	string, The archival status of the requested item(s).

---

media\_list\_spot\_orders\_shares

*List users and groups permissioned on this object*

---

### **Description**

List users and groups permissioned on this object

### **Usage**

media\_list\_spot\_orders\_shares(id)

### **Arguments**

id                    integer required. The ID of the resource that is shared.

### **Value**

An array containing the following fields:

readers            list, A list containing the following elements:

- users array,
- groups array,

writers            list, A list containing the following elements:

- users array,
- groups array,

owners             list, A list containing the following elements:

- users array,
- groups array,

totalUserShares

integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares

integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

media\_list\_targets      *List all Media Targets*

---

**Description**

List all Media Targets

**Usage**

```
media_list_targets(name = NULL, identifier = NULL, data_source = NULL)
```

**Arguments**

name                    string optional. The name of the target.  
 identifier            string optional. A unique identifier for this target.  
 data\_source           string optional. The source of viewership data for this target.

**Value**

An array containing the following fields:

name                    string, The name of the target.  
 identifier            string, A unique identifier for this target.  
 dataSource            string, The source of viewership data for this target.

---

media\_patch\_optimizations  
                           *Edit an existing optimization*

---

**Description**

Edit an existing optimization

**Usage**

```
media_patch_optimizations(  
  id,  
  name = NULL,  
  runs = NULL,  
  programs = NULL,  
  networks = NULL,  
  exclude_programs = NULL,  
  exclude_networks = NULL,  
  time_slot_percentages = NULL  
)
```

**Arguments**

id	integer required. The optimization ID.
name	string optional. The name of the optimization.
runs	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• marketId integer, The market ID.</li> <li>• startDate string, The start date for the media run.</li> <li>• endDate string, The end date for the media run.</li> <li>• forceCpm boolean, Whether to force optimization to use CPM data even if partition data is available.</li> <li>• reachAlpha number, A tuning parameter used to adjust RF.</li> <li>• syscodes array, The syscodes for the media run.</li> <li>• rateCards array, The ratecards for the media run.</li> <li>• constraints array, The constraints for the media run.</li> </ul>
programs	array optional. An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.
networks	array optional. An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.
exclude_programs	boolean optional. If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.
exclude_networks	boolean optional. If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks parameter. An error will be thrown if networks is not also set.
time_slot_percentages	list optional. The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.

**Value**

A list containing the following elements:

id	integer, The optimization ID.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of the optimization.
createdAt	string,

updatedAt	string,
finishedAt	string, The end time of the last run.
state	string, The state of the last run.
lastRunId	integer, The ID of the last run.
spotOrderId	integer, The ID for the spot order produced by the optimization.
archived	string, The archival status of the requested item(s).
reportLink	string, A link to the visual report for the optimization.
spotOrderLink	string, A link to the json version of the spot order.
fileLinks	array, Links to the csv and xml versions of the spot order.
runs	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• marketId integer, The market ID.</li> <li>• startDate string, The start date for the media run.</li> <li>• endDate string, The end date for the media run.</li> <li>• forceCpm boolean, Whether to force optimization to use CPM data even if partition data is available.</li> <li>• reachAlpha number, A tuning parameter used to adjust RF.</li> <li>• syscodes array, The syscodes for the media run.</li> <li>• rateCards array, The ratecards for the media run.</li> <li>• constraints array, The constraints for the media run.</li> </ul>
programs	array, An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.
networks	array, An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.
excludePrograms	boolean, If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.
excludeNetworks	boolean, If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks parameter. An error will be thrown if networks is not also set.
timeSlotPercentages	list, The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.

---

media\_patch\_ratecards *Update some attributes of this Ratecard*

---

### Description

Update some attributes of this Ratecard

### Usage

```
media_patch_ratecards(
  id,
  filename = NULL,
  start_on = NULL,
  end_on = NULL,
  dma_number = NULL
)
```

### Arguments

id	integer required. The ratecard ID.
filename	string optional. Name of the ratecard file.
start_on	string optional. First day to which the ratecard applies.
end_on	string optional. Last day to which the ratecard applies.
dma_number	integer optional. Number of the DMA associated with the ratecard.

### Value

A list containing the following elements:

id	integer, The ratecard ID.
filename	string, Name of the ratecard file.
startOn	string, First day to which the ratecard applies.
endOn	string, Last day to which the ratecard applies.
dmaNumber	integer, Number of the DMA associated with the ratecard.
archived	string, The archival status of the requested item(s).



---

 media\_post\_optimizations

*Create a new optimization*


---

## Description

Create a new optimization

## Usage

```
media_post_optimizations(
  runs,
  name = NULL,
  programs = NULL,
  networks = NULL,
  exclude_programs = NULL,
  exclude_networks = NULL,
  time_slot_percentages = NULL
)
```

## Arguments

runs	array required. An array containing the following fields: <ul style="list-style-type: none"> <li>• marketId integer, The market ID.</li> <li>• startDate string, The start date for the media run.</li> <li>• endDate string, The end date for the media run.</li> <li>• forceCpm boolean, Whether to force optimization to use CPM data even if partition data is available.</li> <li>• reachAlpha number, A tuning parameter used to adjust RF.</li> <li>• syscodes array, The syscodes for the media run.</li> <li>• rateCards array, The ratecards for the media run.</li> <li>• constraints array, The constraints for the media run.</li> </ul>
name	string optional. The name of the optimization.
programs	array optional. An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.
networks	array optional. An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.
exclude_programs	boolean optional. If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.

exclude_networks	boolean optional. If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.
time_slot_percentages	list optional. The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.

**Value**

A list containing the following elements:

id	integer, The optimization ID.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of the optimization.
createdAt	string,
updatedAt	string,
finishedAt	string, The end time of the last run.
state	string, The state of the last run.
lastRunId	integer, The ID of the last run.
spotOrderId	integer, The ID for the spot order produced by the optimization.
archived	string, The archival status of the requested item(s).
reportLink	string, A link to the visual report for the optimization.
spotOrderLink	string, A link to the json version of the spot order.
fileLinks	array, Links to the csv and xml versions of the spot order.
runs	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• marketId integer, The market ID.</li> <li>• startDate string, The start date for the media run.</li> <li>• endDate string, The end date for the media run.</li> <li>• forceCpm boolean, Whether to force optimization to use CPM data even if partition data is available.</li> <li>• reachAlpha number, A tuning parameter used to adjust RF.</li> <li>• syscodes array, The syscodes for the media run.</li> <li>• rateCards array, The ratecards for the media run.</li> <li>• constraints array, The constraints for the media run.</li> </ul>
programs	array, An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.

networks	array, An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.
excludePrograms	boolean, If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.
excludeNetworks	boolean, If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.
timeSlotPercentages	list, The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.

---

media\_post\_optimizations\_clone

*Clone an existing optimization*

---

### Description

Clone an existing optimization

### Usage

```
media_post_optimizations_clone(id)
```

### Arguments

id integer required. The optimization ID.

### Value

A list containing the following elements:

id	integer, The optimization ID.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>id integer, The ID of this user.</li> <li>name string, This user's name.</li> <li>username string, This user's username.</li> <li>initials string, This user's initials.</li> <li>online boolean, Whether this user is online.</li> </ul>
name	string, The name of the optimization.
createdAt	string,

updatedAt	string,
finishedAt	string, The end time of the last run.
state	string, The state of the last run.
lastRunId	integer, The ID of the last run.
spotOrderId	integer, The ID for the spot order produced by the optimization.
archived	string, The archival status of the requested item(s).
reportLink	string, A link to the visual report for the optimization.
spotOrderLink	string, A link to the json version of the spot order.
fileLinks	array, Links to the csv and xml versions of the spot order.
runs	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• marketId integer, The market ID.</li> <li>• startDate string, The start date for the media run.</li> <li>• endDate string, The end date for the media run.</li> <li>• forceCpm boolean, Whether to force optimization to use CPM data even if partition data is available.</li> <li>• reachAlpha number, A tuning parameter used to adjust RF.</li> <li>• syscodes array, The syscodes for the media run.</li> <li>• rateCards array, The ratecards for the media run.</li> <li>• constraints array, The constraints for the media run.</li> </ul>
programs	array, An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.
networks	array, An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.
excludePrograms	boolean, If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.
excludeNetworks	boolean, If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.
timeSlotPercentages	list, The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.

---

media\_post\_optimizations\_runs  
*Start a run*

---

**Description**

Start a run

**Usage**

media\_post\_optimizations\_runs(id)

**Arguments**

id                    integer required. The ID of the optimization.

**Value**

A list containing the following elements:

id                    integer, The ID of the run.  
optimizationId    integer, The ID of the optimization.  
state                string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or  
                      'cancelled'.  
isCancelRequested    boolean, True if run cancel requested, else false.  
startedAt            string, The time the last run started at.  
finishedAt          string, The time the last run completed.  
error                string, The error, if any, returned by the run.

---

media\_post\_ratecards    *Create a Ratecard*

---

**Description**

Create a Ratecard

**Usage**

media\_post\_ratecards(filename, start\_on, end\_on, dma\_number)

**Arguments**

filename	string required. Name of the ratecard file.
start_on	string required. First day to which the ratecard applies.
end_on	string required. Last day to which the ratecard applies.
dma_number	integer required. Number of the DMA associated with the ratecard.

**Value**

A list containing the following elements:

id	integer, The ratecard ID.
filename	string, Name of the ratecard file.
startOn	string, First day to which the ratecard applies.
endOn	string, Last day to which the ratecard applies.
dmaNumber	integer, Number of the DMA associated with the ratecard.
archived	string, The archival status of the requested item(s).

---

media\_post\_spot\_orders

*Create a spot order*

---

**Description**

Create a spot order

**Usage**

media\_post\_spot\_orders(body = NULL)

**Arguments**

body	string optional. CSV body of a spot order.
------	--

**Value**

A list containing the following elements:

id	integer, The ID for the spot order.
archived	string, The archival status of the requested item(s).
csvS3Uri	string, S3 URI for the spot order CSV file.
jsonS3Uri	string, S3 URI for the spot order JSON file.
xmlArchiveS3Uri	string, S3 URI for the spot order XML archive.
lastTransformJobId	integer, ID of the spot order transformation job.

---

 media\_put\_optimizations\_archive

*Update the archive status of this object*


---

**Description**

Update the archive status of this object

**Usage**

```
media_put_optimizations_archive(id, status)
```

**Arguments**

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

id	integer, The optimization ID.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of the optimization.
createdAt	string,
updatedAt	string,
finishedAt	string, The end time of the last run.
state	string, The state of the last run.
lastRunId	integer, The ID of the last run.
spotOrderId	integer, The ID for the spot order produced by the optimization.
archived	string, The archival status of the requested item(s).
reportLink	string, A link to the visual report for the optimization.
spotOrderLink	string, A link to the json version of the spot order.
fileLinks	array, Links to the csv and xml versions of the spot order.
runs	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• marketId integer, The market ID.</li> <li>• startDate string, The start date for the media run.</li> </ul>

- endDate string, The end date for the media run.
- forceCpm boolean, Whether to force optimization to use CPM data even if partition data is available.
- reachAlpha number, A tuning parameter used to adjust RF.
- syscodes array, The syscodes for the media run.
- rateCards array, The ratecards for the media run.
- constraints array, The constraints for the media run.

programs      array, An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude\_programs is not also set.

networks      array, An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude\_networks is not also set.

excludePrograms      boolean, If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.

excludeNetworks      boolean, If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.

timeSlotPercentages      list, The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.

---

media\_put\_optimizations\_shares\_groups

*Set the permissions groups has on this object*

---

## Description

Set the permissions groups has on this object

## Usage

```
media_put_optimizations_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```



**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

media\_put\_optimizations\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
media_put_optimizations_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

media\_put\_ratecards *Replace all attributes of this Ratecard*

---

**Description**

Replace all attributes of this Ratecard

**Usage**

media\_put\_ratecards(id, filename, start\_on, end\_on, dma\_number)

**Arguments**

id	integer required. The ratecard ID.
filename	string required. Name of the ratecard file.
start_on	string required. First day to which the ratecard applies.
end_on	string required. Last day to which the ratecard applies.
dma_number	integer required. Number of the DMA associated with the ratecard.

**Value**

A list containing the following elements:

id	integer, The ratecard ID.
filename	string, Name of the ratecard file.
startOn	string, First day to which the ratecard applies.
endOn	string, Last day to which the ratecard applies.
dmaNumber	integer, Number of the DMA associated with the ratecard.
archived	string, The archival status of the requested item(s).

---

media\_put\_ratecards\_archive

*Update the archive status of this object*

---

**Description**

Update the archive status of this object

**Usage**

media\_put\_ratecards\_archive(id, status)

**Arguments**

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

id	integer, The ratecard ID.
filename	string, Name of the ratecard file.
startOn	string, First day to which the ratecard applies.
endOn	string, Last day to which the ratecard applies.
dmaNumber	integer, Number of the DMA associated with the ratecard.
archived	string, The archival status of the requested item(s).

---

media\_put\_ratecards\_shares\_groups

*Set the permissions groups has on this object*

---

### Description

Set the permissions groups has on this object

### Usage

```
media_put_ratecards_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

### Arguments

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

### Value

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares

integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

media\_put\_ratecards\_shares\_users

*Set the permissions users have on this object*

---

## Description

Set the permissions users have on this object

## Usage

```
media_put_ratecards_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

## Arguments

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

## Value

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> </ul>

- groups array,
- totalUserShares  
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- totalGroupShares  
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

media\_put\_spot\_orders *Edit the specified spot order*

---

### Description

Edit the specified spot order

### Usage

```
media_put_spot_orders(id, body = NULL)
```

### Arguments

id                   integer required. The ID for the spot order.

body                 string optional. CSV body of a spot order.

### Value

A list containing the following elements:

id                   integer, The ID for the spot order.

archived            string, The archival status of the requested item(s).

csvS3Uri            string, S3 URI for the spot order CSV file.

jsonS3Uri           string, S3 URI for the spot order JSON file.

xmlArchiveS3Uri    string, S3 URI for the spot order XML archive.

lastTransformJobId  
integer, ID of the spot order transformation job.

---

```
media_put_spot_orders_archive
```

*Update the archive status of this object*

---

### Description

Update the archive status of this object

### Usage

```
media_put_spot_orders_archive(id, status)
```

### Arguments

<code>id</code>	integer required. The ID of the object.
<code>status</code>	boolean required. The desired archived status of the object.

### Value

A list containing the following elements:

<code>id</code>	integer, The ID for the spot order.
<code>archived</code>	string, The archival status of the requested item(s).
<code>csvS3Uri</code>	string, S3 URI for the spot order CSV file.
<code>jsonS3Uri</code>	string, S3 URI for the spot order JSON file.
<code>xmlArchiveS3Uri</code>	string, S3 URI for the spot order XML archive.
<code>lastTransformJobId</code>	integer, ID of the spot order transformation job.

---

```
media_put_spot_orders_shares_groups
```

*Set the permissions groups has on this object*

---

### Description

Set the permissions groups has on this object

### Usage

```
media_put_spot_orders_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

media\_put\_spot\_orders\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
media_put_spot_orders_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```



**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

models\_delete\_builds *Cancel a build*

---

**Description**

Cancel a build

**Usage**

```
models_delete_builds(id, build_id)
```

**Arguments**

id	integer required. The ID of the model.
build_id	integer required. The ID of the build.

**Value**

An empty HTTP response

---

models\_delete\_projects

*Remove a Model from a project*

---

**Description**

Remove a Model from a project

**Usage**

models\_delete\_projects(id, project\_id)

**Arguments**

id	integer required. The ID of the Model.
project_id	integer required. The ID of the project.

**Value**

An empty HTTP response

---

models\_delete\_shares\_groups

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

models\_delete\_shares\_groups(id, group\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

 models\_delete\_shares\_users

*Revoke the permissions a user has on this object*


---

**Description**

Revoke the permissions a user has on this object

**Usage**

models\_delete\_shares\_users(id, user\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

 models\_get

*Retrieve model configuration*


---

**Description**

Retrieve model configuration

**Usage**

models\_get(id)

**Arguments**

id	integer required. The ID of the model.
----	--

**Value**

A list containing the following elements:

id	integer, The ID of the model.
tableName	string, The qualified name of the table containing the training set from which to build the model.
databaseId	integer, The ID of the database holding the training set table used to build the model.

credentialId	integer, The ID of the credential used to read the target table. Defaults to the user's default credential.
modelName	string, The name of the model.
description	string, A description of the model.
interactionTerms	boolean, Whether to search for interaction terms.
boxCoxTransformation	boolean, Whether to transform data so that it assumes a normal distribution. Valid only with continuous models.
modelTypeId	integer, The ID of the model's type.
primaryKey	string, The unique ID (primary key) of the training dataset.
dependentVariable	string, The dependent variable of the training dataset.
dependentVariableOrder	array, The order of dependent variables, especially useful for Ordinal Modeling.
excludedColumns	array, A list of columns which will be considered ineligible to be independent variables.
limitingSQL	string, A custom SQL WHERE clause used to filter the rows used to build the model. (e.g., "id > 105").
activeBuildId	integer, The ID of the current active build, the build used to score predictions.
crossValidationParameters	list, Cross validation parameter grid for tree methods, e.g. "n_estimators": [100, 200, 500], "learning_rate": [0.01, 0.1], "max_depth": [2, 3].
numberOfFolds	integer, Number of folds for cross validation. Default value is 5.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
schedule	list, A list containing the following elements:

	<ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this model.
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
timeZone	string, The time zone of this model.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
createdAt	string, The time the model was created.
updatedAt	string, The time the model was updated.
currentBuildState	string, The status of the current model build. One of "succeeded", "failed", "queued", or "running," or "idle", if no build has been attempted.
currentBuildException	string, Exception message, if applicable, of the current model build.
builds	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of the model build.</li> <li>• name string, The name of the model build.</li> <li>• createdAt string, The time the model build was created.</li> <li>• description string, A description of the model build.</li> </ul>

- rootMeanSquaredError number, A key metric for continuous models. Nil for other model types.
- rSquaredError number, A key metric for continuous models. Nil for other model types.
- rocAuc number, A key metric for binary, multinomial, and ordinal models. Nil for other model types.

predictions      array, An array containing the following fields:

- id integer, The ID of the model to which to apply the prediction.
- tableName string, The qualified name of the table on which to apply the predictive model.
- primaryKey array, The primary key or composite keys of the table being predicted.
- limitingSQL string, A SQL WHERE clause used to scope the rows to be predicted.
- outputTable string, The qualified name of the table to be created which will contain the model's predictions.
- schedule object,
- state string, The status of the prediction. One of: "succeeded", "failed", "queued", or "running," or "idle", if no build has been attempted.

lastOutputLocation      string, The output JSON for the last build.

archived              string, The archival status of the requested item(s).

---

models\_get\_builds      *Check status of a build*

---

## Description

Check status of a build

## Usage

```
models_get_builds(id, build_id)
```

## Arguments

id	integer required. The ID of the model.
build_id	integer required. The ID of the build.

**Value**

A list containing the following elements:

id	integer, The ID of the model build.
state	string, The state of the model build. one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
error	string, The error, if any, returned by the build.
name	string, The name of the model build.
createdAt	string, The time the model build was created.
description	string, A description of the model build.
rootMeanSquaredError	number, A key metric for continuous models. Nil for other model types.
rSquaredError	number, A key metric for continuous models. Nil for other model types.
rocAuc	number, A key metric for binary, multinomial, and ordinal models. Nil for other model types.
transformationMetadata	string, A string representing the full JSON output of the metadata for transformation of column names
output	string, A string representing the JSON output for the specified build. Only present when smaller than 10KB in size.
outputLocation	string, A URL representing the location of the full JSON output for the specified build. The URL link will be valid for 5 minutes.

---

models\_list

*List*

---

**Description**

List

**Usage**

```
models_list(
  model_name = NULL,
  training_table_name = NULL,
  dependent_variable = NULL,
  author = NULL,
  status = NULL,
  hidden = NULL,
  archived = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

model_name	string optional. If specified, will be used to filter the models returned. Substring matching is supported. (e.g., "modelName=model" will return both "model1" and "my model").
training_table_name	string optional. If specified, will be used to filter the models returned by the training dataset table name. Substring matching is supported. (e.g., "trainingTableName=table" will return both "table1" and "my_table").
dependent_variable	string optional. If specified, will be used to filter the models returned by the dependent variable column name. Substring matching is supported. (e.g., "dependentVariable=predictor" will return both "predictor" and "my predictor").
author	string optional. If specified, return models from this author. It accepts a comma-separated list of author ids.
status	string optional. If specified, returns models with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
archived	string optional. The archival status of the requested item(s).
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at, last_run.updated_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The ID of the model.
tableName	string, The qualified name of the table containing the training set from which to build the model.
databaseId	integer, The ID of the database holding the training set table used to build the model.
credentialId	integer, The ID of the credential used to read the target table. Defaults to the user's default credential.
modelName	string, The name of the model.
description	string, A description of the model.
interactionTerms	boolean, Whether to search for interaction terms.



boxCoxTransformation	boolean, Whether to transform data so that it assumes a normal distribution. Valid only with continuous models.
modelTypeId	integer, The ID of the model's type.
primaryKey	string, The unique ID (primary key) of the training dataset.
dependentVariable	string, The dependent variable of the training dataset.
dependentVariableOrder	array, The order of dependent variables, especially useful for Ordinal Modeling.
excludedColumns	array, A list of columns which will be considered ineligible to be independent variables.
limitingSQL	string, A custom SQL WHERE clause used to filter the rows used to build the model. (e.g., "id > 105").
crossValidationParameters	list, Cross validation parameter grid for tree methods, e.g. "n_estimators": [100, 200, 500], "learning_rate": [0.01, 0.1], "max_depth": [2, 3].
numberOfFolds	integer, Number of folds for cross validation. Default value is 5.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this model.
timeZone	string, The time zone of this model.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
createdAt	string, The time the model was created.

updatedAt	string, The time the model was updated.
currentBuildState	string, The status of the current model build. One of "succeeded", "failed", "queued", or "running," or "idle", if no build has been attempted.
currentBuildException	string, Exception message, if applicable, of the current model build.
builds	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of the model build.</li> <li>• name string, The name of the model build.</li> <li>• createdAt string, The time the model build was created.</li> <li>• description string, A description of the model build.</li> <li>• rootMeanSquaredError number, A key metric for continuous models. Nil for other model types.</li> <li>• rSquaredError number, A key metric for continuous models. Nil for other model types.</li> <li>• rocAuc number, A key metric for binary, multinomial, and ordinal models. Nil for other model types.</li> </ul>
predictions	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of the model to which to apply the prediction.</li> <li>• tableName string, The qualified name of the table on which to apply the predictive model.</li> <li>• primaryKey array, The primary key or composite keys of the table being predicted.</li> <li>• limitingSQL string, A SQL WHERE clause used to scope the rows to be predicted.</li> <li>• outputTable string, The qualified name of the table to be created which will contain the model's predictions.</li> <li>• state string, The status of the prediction. One of: "succeeded", "failed", "queued", or "running," or "idle", if no build has been attempted.</li> </ul>
lastOutputLocation	string, The output JSON for the last build.
archived	string, The archival status of the requested item(s).

---

models\_list\_builds      *List builds for the given model*

---

### Description

List builds for the given model

**Usage**

```
models_list_builds(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

<code>id</code>	integer required. The ID of the model.
<code>limit</code>	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
<code>page_num</code>	integer optional. Page number of the results to return. Defaults to the first page, 1.
<code>order</code>	string optional. The field on which to order the result set. Defaults to <code>id</code> . Must be one of: <code>id</code> .
<code>order_dir</code>	string optional. Direction in which to sort, either <code>asc</code> (ascending) or <code>desc</code> (descending) defaulting to <code>desc</code> .

**Value**

An array containing the following fields:

<code>id</code>	integer, The ID of the model build.
<code>state</code>	string, The state of the model build. one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
<code>error</code>	string, The error, if any, returned by the build.
<code>name</code>	string, The name of the model build.
<code>createdAt</code>	string, The time the model build was created.
<code>description</code>	string, A description of the model build.
<code>rootMeanSquaredError</code>	number, A key metric for continuous models. Nil for other model types.
<code>rSquaredError</code>	number, A key metric for continuous models. Nil for other model types.
<code>rocAuc</code>	number, A key metric for binary, multinomial, and ordinal models. Nil for other model types.
<code>transformationMetadata</code>	string, A string representing the full JSON output of the metadata for transformation of column names
<code>output</code>	string, A string representing the JSON output for the specified build. Only present when smaller than 10KB in size.
<code>outputLocation</code>	string, A URL representing the location of the full JSON output for the specified build. The URL link will be valid for 5 minutes.

models\_list\_builds\_logs

*Get the logs for a build*

---

### Description

Get the logs for a build

### Usage

```
models_list_builds_logs(id, build_id, last_id = NULL, limit = NULL)
```

### Arguments

id	integer required. The ID of the model.
build_id	integer required. The ID of the build.
last_id	integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit	integer optional. The maximum number of log messages to return. Default of 10000.

### Value

An array containing the following fields:

id	integer, The ID of the log.
createdAt	string, The time the log was created.
message	string, The log message.
level	string, The level of the log. One of unknown,fatal,error,warn,info,debug.

---

models\_list\_projects *List the projects a Model belongs to*

---

### Description

List the projects a Model belongs to

### Usage

```
models_list_projects(id, hidden = NULL)
```

**Arguments**

id	integer required. The ID of the Model.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

models\_list\_schedules *Show the model build schedule*

---

**Description**

Show the model build schedule

**Usage**

models\_list\_schedules(id)

**Arguments**

id	integer required. The ID of the model associated with this schedule.
----	--

**Value**

A list containing the following elements:

id	integer, The ID of the model associated with this schedule.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>

---

models\_list\_shares      *List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

models\_list\_shares(id)

**Arguments**

id	integer required. The ID of the resource that is shared.
----	--

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

models\_list\_types      *List all available model types*

---

**Description**

List all available model types

**Usage**

```
models_list_types()
```

**Value**

An array containing the following fields:

id	integer, The ID of the model type.
algorithm	string, The name of the algorithm used to train the model.
dvType	string, The type of dependent variable predicted by the model.
fiintAllowed	boolean, Whether this model type supports searching for interaction terms.

---

models\_put\_archive      *Update the archive status of this object*

---

**Description**

Update the archive status of this object

**Usage**

```
models_put_archive(id, status)
```

**Arguments**

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

id	integer, The ID of the model.
tableName	string, The qualified name of the table containing the training set from which to build the model.
databaseId	integer, The ID of the database holding the training set table used to build the model.

credentialId	integer, The ID of the credential used to read the target table. Defaults to the user's default credential.
modelName	string, The name of the model.
description	string, A description of the model.
interactionTerms	boolean, Whether to search for interaction terms.
boxCoxTransformation	boolean, Whether to transform data so that it assumes a normal distribution. Valid only with continuous models.
modelTypeId	integer, The ID of the model's type.
primaryKey	string, The unique ID (primary key) of the training dataset.
dependentVariable	string, The dependent variable of the training dataset.
dependentVariableOrder	array, The order of dependent variables, especially useful for Ordinal Modeling.
excludedColumns	array, A list of columns which will be considered ineligible to be independent variables.
limitingSQL	string, A custom SQL WHERE clause used to filter the rows used to build the model. (e.g., "id > 105").
activeBuildId	integer, The ID of the current active build, the build used to score predictions.
crossValidationParameters	list, Cross validation parameter grid for tree methods, e.g. "n_estimators": [100, 200, 500], "learning_rate": [0.01, 0.1], "max_depth": [2, 3].
numberOfFolds	integer, Number of folds for cross validation. Default value is 5.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
schedule	list, A list containing the following elements:



	<ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this model.
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
timeZone	string, The time zone of this model.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
createdAt	string, The time the model was created.
updatedAt	string, The time the model was updated.
currentBuildState	string, The status of the current model build. One of "succeeded", "failed", "queued", or "running," or "idle", if no build has been attempted.
currentBuildException	string, Exception message, if applicable, of the current model build.
builds	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of the model build.</li> <li>• name string, The name of the model build.</li> <li>• createdAt string, The time the model build was created.</li> <li>• description string, A description of the model build.</li> </ul>

- rootMeanSquaredError number, A key metric for continuous models. Nil for other model types.
- rSquaredError number, A key metric for continuous models. Nil for other model types.
- rocAuc number, A key metric for binary, multinomial, and ordinal models. Nil for other model types.

predictions      array, An array containing the following fields:

- id integer, The ID of the model to which to apply the prediction.
- tableName string, The qualified name of the table on which to apply the predictive model.
- primaryKey array, The primary key or composite keys of the table being predicted.
- limitingSQL string, A SQL WHERE clause used to scope the rows to be predicted.
- outputTable string, The qualified name of the table to be created which will contain the model's predictions.
- schedule object,
- state string, The status of the prediction. One of: "succeeded", "failed", "queued", or "running," or "idle", if no build has been attempted.

lastOutputLocation      string, The output JSON for the last build.

archived              string, The archival status of the requested item(s).

---

models\_put\_projects      *Add a Model to a project*

---

### Description

Add a Model to a project

### Usage

models\_put\_projects(id, project\_id)

### Arguments

id                      integer required. The ID of the Model.  
 project\_id            integer required. The ID of the project.

### Value

An empty HTTP response

---

 models\_put\_shares\_groups

*Set the permissions groups has on this object*


---

**Description**

Set the permissions groups has on this object

**Usage**

```
models_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares  
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

models\_put\_shares\_users

*Set the permissions users have on this object*

---

## Description

Set the permissions users have on this object

## Usage

```
models_put_shares_users(  
    id,  
    user_ids,  
    permission_level,  
    share_email_body = NULL,  
    send_shared_email = NULL  
)
```

## Arguments

id integer required. The ID of the resource that is shared.  
user\_ids array required. An array of one or more user IDs.  
permission\_level string required. Options are: "read", "write", or "manage".  
share\_email\_body string optional. Custom body text for e-mail sent on a share.  
send\_shared\_email boolean optional. Send email to the recipients of a share.

## Value

A list containing the following elements:

readers list, A list containing the following elements:

- users array,
- groups array,

writers list, A list containing the following elements:

- users array,
- groups array,

owners list, A list containing the following elements:

- users array,

- groups array,
- totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

multipart\_upload      *Upload to files endpoint in parts.*

---

### Description

If a future::plan has been set, will be carried out in parallel.

### Usage

```
multipart_upload(file, name = "", chunk_size = 32 * 1024, expires_at = NULL)
```

### Arguments

file	the file
name	name of the upload, defaults to
chunk_size	size of the chunks in bytes
expires_at	when the file expires (default never).

---

notebooks\_delete      *Archive a Notebook (deprecated, use archiving endpoints instead)*

---

### Description

Archive a Notebook (deprecated, use archiving endpoints instead)

### Usage

```
notebooks_delete(id)
```

### Arguments

id	integer required.
----	-------------------

### Value

An empty HTTP response

---

notebooks\_delete\_deployments

*Delete a Notebook deployment*

---

**Description**

Delete a Notebook deployment

**Usage**

notebooks\_delete\_deployments(notebook\_id, deployment\_id)

**Arguments**

notebook\_id     integer required. The ID of the owning Notebook  
deployment\_id   integer required. The ID for this deployment

**Value**

An empty HTTP response

---

notebooks\_delete\_projects

*Remove a Notebook from a project*

---

**Description**

Remove a Notebook from a project

**Usage**

notebooks\_delete\_projects(id, project\_id)

**Arguments**

id                 integer required. The ID of the Notebook.  
project\_id        integer required. The ID of the project.

**Value**

An empty HTTP response

---

`notebooks_delete_shares_groups`*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
notebooks_delete_shares_groups(id, group_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>group_id</code>	integer required. The ID of the group.

**Value**

An empty HTTP response

---

`notebooks_delete_shares_users`*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
notebooks_delete_shares_users(id, user_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>user_id</code>	integer required. The ID of the user.

**Value**

An empty HTTP response

---

notebooks_get	<i>Get a Notebook</i>
---------------	-----------------------

---

**Description**

Get a Notebook

**Usage**

```
notebooks_get(id)
```

**Arguments**

id	integer required.
----	-------------------

**Value**

A list containing the following elements:

id	integer, The ID for this notebook.
name	string, The name of this notebook.
language	string, The kernel language of this notebook.
description	string, The description of this notebook.
notebookUrl	string, Time-limited URL to get the .ipynb file for this notebook.
notebookPreviewUrl	string, Time-limited URL to get the .htm preview file for this notebook.
requirementsUrl	string, Time-limited URL to get the requirements.txt file for this notebook.
fileId	string, The file ID for the S3 file containing the .ipynb file.
requirementsFileId	string, The file ID for the S3 file containing the requirements.txt file.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
instanceType	string, The EC2 instance type to deploy to.
memory	integer, The amount of memory allocated to the notebook.
cpu	integer, The amount of cpu allocated to the the notebook.



createdAt	string,
updatedAt	string,
mostRecentDeployment	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• deploymentId integer, The ID for this deployment.</li> <li>• userId integer, The ID of the owner.</li> <li>• host string, Domain of the deployment.</li> <li>• name string, Name of the deployment.</li> <li>• dockerImageName string, The name of the docker image to pull from DockerHub.</li> <li>• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li> <li>• displayUrl string, A signed URL for viewing the deployed item.</li> <li>• instanceType string, The EC2 instance type requested for the deployment.</li> <li>• memory integer, The memory allocated to the deployment.</li> <li>• cpu integer, The cpu allocated to the deployment.</li> <li>• state string, The state of the deployment.</li> <li>• stateMessage string, A detailed description of the state.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> <li>• published boolean,</li> <li>• notebookId integer, The ID of owning Notebook</li> </ul>
credentials	array, A list of credential IDs to pass to the notebook.
environmentVariables	list, Environment variables to be passed into the Notebook.
idleTimeout	integer, How long the notebook will stay alive without any kernel activity.
gitRepoId	integer, The ID of the git repository.
gitRepoUrl	string, The url of the git repository
gitRef	string, The git reference if git repo is specified
gitPath	string, The path to the .ipynb file in the git repo that will be started up on notebook launch
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.

---

 notebooks\_get\_deployments

*Get details about a Notebook deployment*


---

### Description

Get details about a Notebook deployment

### Usage

```
notebooks_get_deployments(notebook_id, deployment_id)
```

### Arguments

notebook\_id integer required. The ID of the owning Notebook  
 deployment\_id integer required. The ID for this deployment

### Value

A list containing the following elements:

deploymentId	integer, The ID for this deployment.
userId	integer, The ID of the owner.
host	string, Domain of the deployment.
name	string, Name of the deployment.
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
displayUrl	string, A signed URL for viewing the deployed item.
instanceType	string, The EC2 instance type requested for the deployment.
memory	integer, The memory allocated to the deployment.
cpu	integer, The cpu allocated to the deployment.
state	string, The state of the deployment.
stateMessage	string, A detailed description of the state.
createdAt	string,
updatedAt	string,
published	boolean,
notebookId	integer, The ID of owning Notebook

---

notebooks\_get\_git\_commits  
*Get file contents at commit\_hash*

---

**Description**

Get file contents at commit\_hash

**Usage**

```
notebooks_get_git_commits(id, commit_hash)
```

**Arguments**

id	integer required. The ID of the file.
commit_hash	string required. The SHA (full or shortened) of the desired git commit.

**Value**

A list containing the following elements:

content	string, The file's contents.
type	string, The file's type.
size	integer, The file's size.
fileHash	string, The SHA of the file.

---

notebooks\_list      *List Notebooks*

---

**Description**

List Notebooks

**Usage**

```
notebooks_list(  
  hidden = NULL,  
  archived = NULL,  
  author = NULL,  
  status = NULL,  
  limit = NULL,  
  page_num = NULL,  
  order = NULL,  
  order_dir = NULL  
)
```

**Arguments**

hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
archived	string optional. The archival status of the requested item(s).
author	string optional. If specified, return imports from this author. It accepts a comma-separated list of author IDs.
status	string optional. If specified, returns notebooks with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'pending', 'idle'.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The ID for this notebook.
name	string, The name of this notebook.
language	string, The kernel language of this notebook.
description	string, The description of this notebook.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
createdAt	string,
updatedAt	string,
mostRecentDeployment	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• deploymentId integer, The ID for this deployment.</li> <li>• userId integer, The ID of the owner.</li> <li>• host string, Domain of the deployment.</li> <li>• name string, Name of the deployment.</li> <li>• dockerImageName string, The name of the docker image to pull from DockerHub.</li> <li>• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li> </ul>

- instanceType string, The EC2 instance type requested for the deployment.
  - memory integer, The memory allocated to the deployment.
  - cpu integer, The cpu allocated to the deployment.
  - state string, The state of the deployment.
  - stateMessage string, A detailed description of the state.
  - createdAt string,
  - updatedAt string,
  - published boolean,
  - notebookId integer, The ID of owning Notebook
- archived string, The archival status of the requested item(s).

---

notebooks\_list\_deployments

*List deployments for a Notebook*

---

### Description

List deployments for a Notebook

### Usage

```
notebooks_list_deployments(
    notebook_id,
    deployment_id = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

### Arguments

- |               |  |
|---------------|--|
| notebook_id   | integer required. The ID of the owning Notebook  |
| deployment_id | integer optional. The ID for this deployment   |
| limit         | integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.                            |
| page_num      | integer optional. Page number of the results to return. Defaults to the first page, 1.                           |
| order         | string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at. |
| order_dir     | string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.     |

**Value**

An array containing the following fields:

deploymentId	integer, The ID for this deployment.
userId	integer, The ID of the owner.
host	string, Domain of the deployment.
name	string, Name of the deployment.
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
instanceType	string, The EC2 instance type requested for the deployment.
memory	integer, The memory allocated to the deployment.
cpu	integer, The cpu allocated to the deployment.
state	string, The state of the deployment.
stateMessage	string, A detailed description of the state.
createdAt	string,
updatedAt	string,
published	boolean,
notebookId	integer, The ID of owning Notebook

---

notebooks\_list\_deployments\_logs

*Get the logs for a Notebook deployment*

---

**Description**

Get the logs for a Notebook deployment

**Usage**

```
notebooks_list_deployments_logs(
    id,
    deployment_id,
    start_at = NULL,
    end_at = NULL,
    limit = NULL
)
```

**Arguments**

id	integer required. The ID of the owning Notebook.
deployment_id	integer required. The ID for this deployment.
start_at	string optional. Log entries with a lower timestamp will be omitted.
end_at	string optional. Log entries with a higher timestamp will be omitted.
limit	integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

message	string, The log message.
stream	string, The stream of the log. One of "stdout", "stderr".
createdAt	string, The time the log was created.
source	string, The source of the log. One of "system", "user".

---

notebooks\_list\_git     *Get the git metadata attached to an item*

---

**Description**

Get the git metadata attached to an item

**Usage**

```
notebooks_list_git(id)
```

**Arguments**

id	integer required. The ID of the file.
----	---------------------------------------

**Value**

A list containing the following elements:

gitRef	string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
gitBranch	string, The git branch that the file is on.
gitPath	string, The path of the file in the repository.
gitRepo	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID for this git repository.</li> <li>• repoUrl string, The URL for this git repository.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> </ul>
pullFromGit	boolean, Automatically pull latest commit from git. Only works for scripts.

notebooks\_list\_git\_commits

*Get the git commits for an item*

---

**Description**

Get the git commits for an item

**Usage**

```
notebooks_list_git_commits(id)
```

**Arguments**

id integer required. The ID of the file.

**Value**

A list containing the following elements:

commitHash	string, The SHA of the commit.
authorName	string, The name of the commit's author.
date	string, The commit's timestamp.
message	string, The commit message.

---

notebooks\_list\_projects

*List the projects a Notebook belongs to*

---

**Description**

List the projects a Notebook belongs to

**Usage**

```
notebooks_list_projects(id, hidden = NULL)
```

**Arguments**

id integer required. The ID of the Notebook.

hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.



**Value**

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

notebooks\_list\_shares *List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

```
notebooks_list_shares(id)
```

**Arguments**

id integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

notebooks\_list\_update\_links

*Get URLs to update notebook*

---

**Description**

Get URLs to update notebook

**Usage**

notebooks\_list\_update\_links(id)

**Arguments**

id                    integer required.

**Value**

A list containing the following elements:

updateUrl	string, Time-limited URL to PUT new contents of the .ipynb file for this notebook.
updatePreviewUrl	string, Time-limited URL to PUT new contents of the .htm preview file for this notebook.

---

notebooks_patch	<i>Update some attributes of this Notebook</i>
-----------------	--

---

**Description**

Update some attributes of this Notebook

**Usage**

```
notebooks_patch(
  id,
  name = NULL,
  language = NULL,
  description = NULL,
  file_id = NULL,
  requirements_file_id = NULL,
  requirements = NULL,
  docker_image_name = NULL,
  docker_image_tag = NULL,
  instance_type = NULL,
  memory = NULL,
  cpu = NULL,
  credentials = NULL,
  environment_variables = NULL,
  idle_timeout = NULL,
  git_repo_url = NULL,
  git_ref = NULL,
  git_path = NULL
)
```

**Arguments**

id	integer required. The ID for this notebook.
name	string optional. The name of this notebook.
language	string optional. The kernel language of this notebook.
description	string optional. The description of this notebook.
file_id	string optional. The file ID for the S3 file containing the .ipynb file.
requirements_file_id	string optional. The file ID for the S3 file containing the requirements.txt file.
requirements	string optional. The requirements txt file.
docker_image_name	string optional. The name of the docker image to pull from DockerHub.
docker_image_tag	string optional. The tag of the docker image to pull from DockerHub (default: latest).

instance_type	string optional. The EC2 instance type to deploy to.
memory	integer optional. The amount of memory allocated to the notebook.
cpu	integer optional. The amount of cpu allocated to the the notebook.
credentials	array optional. A list of credential IDs to pass to the notebook.
environment_variables	list optional. Environment variables to be passed into the Notebook.
idle_timeout	integer optional. How long the notebook will stay alive without any kernel activity.
git_repo_url	string optional. The url of the git repository
git_ref	string optional. The git reference if git repo is specified
git_path	string optional. The path to the .ipynb file in the git repo that will be started up on notebook launch

### Value

A list containing the following elements:

id	integer, The ID for this notebook.
name	string, The name of this notebook.
language	string, The kernel language of this notebook.
description	string, The description of this notebook.
notebookUrl	string, Time-limited URL to get the .ipynb file for this notebook.
notebookPreviewUrl	string, Time-limited URL to get the .htm preview file for this notebook.
requirementsUrl	string, Time-limited URL to get the requirements.txt file for this notebook.
fileId	string, The file ID for the S3 file containing the .ipynb file.
requirementsFileId	string, The file ID for the S3 file containing the requirements.txt file.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
instanceType	string, The EC2 instance type to deploy to.
memory	integer, The amount of memory allocated to the notebook.
cpu	integer, The amount of cpu allocated to the the notebook.
createdAt	string,

updatedAt	string,
mostRecentDeployment	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• deploymentId integer, The ID for this deployment.</li> <li>• userId integer, The ID of the owner.</li> <li>• host string, Domain of the deployment.</li> <li>• name string, Name of the deployment.</li> <li>• dockerImageName string, The name of the docker image to pull from DockerHub.</li> <li>• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li> <li>• displayUrl string, A signed URL for viewing the deployed item.</li> <li>• instanceType string, The EC2 instance type requested for the deployment.</li> <li>• memory integer, The memory allocated to the deployment.</li> <li>• cpu integer, The cpu allocated to the deployment.</li> <li>• state string, The state of the deployment.</li> <li>• stateMessage string, A detailed description of the state.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> <li>• published boolean,</li> <li>• notebookId integer, The ID of owning Notebook</li> </ul>
credentials	array, A list of credential IDs to pass to the notebook.
environmentVariables	list, Environment variables to be passed into the Notebook.
idleTimeout	integer, How long the notebook will stay alive without any kernel activity.
gitRepoId	integer, The ID of the git repository.
gitRepoUrl	string, The url of the git repository
gitRef	string, The git reference if git repo is specified
gitPath	string, The path to the .ipynb file in the git repo that will be started up on notebook launch
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.

---

notebooks\_post

*Create a Notebook*


---

### Description

Create a Notebook

**Usage**

```

notebooks_post(
  name = NULL,
  language = NULL,
  description = NULL,
  file_id = NULL,
  requirements_file_id = NULL,
  requirements = NULL,
  docker_image_name = NULL,
  docker_image_tag = NULL,
  instance_type = NULL,
  memory = NULL,
  cpu = NULL,
  credentials = NULL,
  environment_variables = NULL,
  idle_timeout = NULL,
  git_repo_url = NULL,
  git_ref = NULL,
  git_path = NULL,
  hidden = NULL
)

```

**Arguments**

name	string optional. The name of this notebook.
language	string optional. The kernel language of this notebook.
description	string optional. The description of this notebook.
file_id	string optional. The file ID for the S3 file containing the .ipynb file.
requirements_file_id	string optional. The file ID for the S3 file containing the requirements.txt file.
requirements	string optional. The requirements txt file.
docker_image_name	string optional. The name of the docker image to pull from DockerHub.
docker_image_tag	string optional. The tag of the docker image to pull from DockerHub (default: latest).
instance_type	string optional. The EC2 instance type to deploy to.
memory	integer optional. The amount of memory allocated to the notebook.
cpu	integer optional. The amount of cpu allocated to the the notebook.
credentials	array optional. A list of credential IDs to pass to the notebook.
environment_variables	list optional. Environment variables to be passed into the Notebook.
idle_timeout	integer optional. How long the notebook will stay alive without any kernel activity.

git_repo_url	string optional. The url of the git repository
git_ref	string optional. The git reference if git repo is specified
git_path	string optional. The path to the .ipynb file in the git repo that will be started up on notebook launch
hidden	boolean optional. The hidden status of the item.

**Value**

A list containing the following elements:

id	integer, The ID for this notebook.
name	string, The name of this notebook.
language	string, The kernel language of this notebook.
description	string, The description of this notebook.
notebookUrl	string, Time-limited URL to get the .ipynb file for this notebook.
notebookPreviewUrl	string, Time-limited URL to get the .htm preview file for this notebook.
requirementsUrl	string, Time-limited URL to get the requirements.txt file for this notebook.
fileId	string, The file ID for the S3 file containing the .ipynb file.
requirementsFileId	string, The file ID for the S3 file containing the requirements.txt file.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
instanceType	string, The EC2 instance type to deploy to.
memory	integer, The amount of memory allocated to the notebook.
cpu	integer, The amount of cpu allocated to the the notebook.
createdAt	string,
updatedAt	string,
mostRecentDeployment	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• deploymentId integer, The ID for this deployment.</li> <li>• userId integer, The ID of the owner.</li> <li>• host string, Domain of the deployment.</li> <li>• name string, Name of the deployment.</li> </ul>

- dockerImageName string, The name of the docker image to pull from DockerHub.
- dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl string, A signed URL for viewing the deployed item.
- instanceType string, The EC2 instance type requested for the deployment.
- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- notebookId integer, The ID of owning Notebook

credentials	array, A list of credential IDs to pass to the notebook.
environmentVariables	list, Environment variables to be passed into the Notebook.
idleTimeout	integer, How long the notebook will stay alive without any kernel activity.
gitRepoId	integer, The ID of the git repository.
gitRepoUrl	string, The url of the git repository
gitRef	string, The git reference if git repo is specified
gitPath	string, The path to the .ipynb file in the git repo that will be started up on notebook launch
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.

---

notebooks\_post\_clone *Clone this Notebook*

---

### Description

Clone this Notebook

### Usage

```
notebooks_post_clone(id)
```

### Arguments

id integer required.



**Value**

A list containing the following elements:

id	integer, The ID for this notebook.
name	string, The name of this notebook.
language	string, The kernel language of this notebook.
description	string, The description of this notebook.
notebookUrl	string, Time-limited URL to get the .ipynb file for this notebook.
notebookPreviewUrl	string, Time-limited URL to get the .htm preview file for this notebook.
requirementsUrl	string, Time-limited URL to get the requirements.txt file for this notebook.
fileId	string, The file ID for the S3 file containing the .ipynb file.
requirementsFileId	string, The file ID for the S3 file containing the requirements.txt file.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
instanceType	string, The EC2 instance type to deploy to.
memory	integer, The amount of memory allocated to the notebook.
cpu	integer, The amount of cpu allocated to the the notebook.
createdAt	string,
updatedAt	string,
mostRecentDeployment	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• deploymentId integer, The ID for this deployment.</li> <li>• userId integer, The ID of the owner.</li> <li>• host string, Domain of the deployment.</li> <li>• name string, Name of the deployment.</li> <li>• dockerImageName string, The name of the docker image to pull from DockerHub.</li> <li>• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li> <li>• displayUrl string, A signed URL for viewing the deployed item.</li> <li>• instanceType string, The EC2 instance type requested for the deployment.</li> </ul>

- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- notebookId integer, The ID of owning Notebook

credentials	array, A list of credential IDs to pass to the notebook.
environmentVariables	list, Environment variables to be passed into the Notebook.
idleTimeout	integer, How long the notebook will stay alive without any kernel activity.
gitRepoId	integer, The ID of the git repository.
gitRepoUrl	string, The url of the git repository
gitRef	string, The git reference if git repo is specified
gitPath	string, The path to the .ipynb file in the git repo that will be started up on notebook launch
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.

---

notebooks\_post\_deployments

*Deploy a Notebook*

---

## Description

Deploy a Notebook

## Usage

```
notebooks_post_deployments(notebook_id, deployment_id = NULL, published = NULL)
```

## Arguments

notebook_id	integer required. The ID of the owning Notebook
deployment_id	integer optional. The ID for this deployment
published	boolean optional.

**Value**

A list containing the following elements:

deploymentId	integer, The ID for this deployment.
userId	integer, The ID of the owner.
host	string, Domain of the deployment.
name	string, Name of the deployment.
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
displayUrl	string, A signed URL for viewing the deployed item.
instanceType	string, The EC2 instance type requested for the deployment.
memory	integer, The memory allocated to the deployment.
cpu	integer, The cpu allocated to the deployment.
state	string, The state of the deployment.
stateMessage	string, A detailed description of the state.
createdAt	string,
updatedAt	string,
published	boolean,
notebookId	integer, The ID of owning Notebook

---

notebooks\_post\_git\_commits

*Commit and push a new version of the file*

---

**Description**

Commit and push a new version of the file

**Usage**

```
notebooks_post_git_commits(id, content, message, file_hash)
```

**Arguments**

id	integer required. The ID of the file.
content	string required. The contents to commit to the file.
message	string required. A commit message describing the changes being made.
file_hash	string required. The full SHA of the file being replaced.

**Value**

A list containing the following elements:

content	string, The file's contents.
type	string, The file's type.
size	integer, The file's size.
fileHash	string, The SHA of the file.

---

notebooks_put	<i>Replace all attributes of this Notebook</i>
---------------	--

---

**Description**

Replace all attributes of this Notebook

**Usage**

```
notebooks_put(
    id,
    name = NULL,
    language = NULL,
    description = NULL,
    file_id = NULL,
    requirements_file_id = NULL,
    requirements = NULL,
    docker_image_name = NULL,
    docker_image_tag = NULL,
    instance_type = NULL,
    memory = NULL,
    cpu = NULL,
    credentials = NULL,
    environment_variables = NULL,
    idle_timeout = NULL,
    git_repo_url = NULL,
    git_ref = NULL,
    git_path = NULL
)
```

**Arguments**

id	integer required. The ID for this notebook.
name	string optional. The name of this notebook.
language	string optional. The kernel language of this notebook.
description	string optional. The description of this notebook.
file_id	string optional. The file ID for the S3 file containing the .ipynb file.

requirements_file_id	string optional. The file ID for the S3 file containing the requirements.txt file.
requirements	string optional. The requirements txt file.
docker_image_name	string optional. The name of the docker image to pull from DockerHub.
docker_image_tag	string optional. The tag of the docker image to pull from DockerHub (default: latest).
instance_type	string optional. The EC2 instance type to deploy to.
memory	integer optional. The amount of memory allocated to the notebook.
cpu	integer optional. The amount of cpu allocated to the the notebook.
credentials	array optional. A list of credential IDs to pass to the notebook.
environment_variables	list optional. Environment variables to be passed into the Notebook.
idle_timeout	integer optional. How long the notebook will stay alive without any kernel activity.
git_repo_url	string optional. The url of the git repository
git_ref	string optional. The git reference if git repo is specified
git_path	string optional. The path to the .ipynb file in the git repo that will be started up on notebook launch

## Value

A list containing the following elements:

id	integer, The ID for this notebook.
name	string, The name of this notebook.
language	string, The kernel language of this notebook.
description	string, The description of this notebook.
notebookUrl	string, Time-limited URL to get the .ipynb file for this notebook.
notebookPreviewUrl	string, Time-limited URL to get the .htm preview file for this notebook.
requirementsUrl	string, Time-limited URL to get the requirements.txt file for this notebook.
fileId	string, The file ID for the S3 file containing the .ipynb file.
requirementsFileId	string, The file ID for the S3 file containing the requirements.txt file.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> </ul>

	<ul style="list-style-type: none"> <li>• online boolean, Whether this user is online.</li> </ul>
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
instanceType	string, The EC2 instance type to deploy to.
memory	integer, The amount of memory allocated to the notebook.
cpu	integer, The amount of cpu allocated to the the notebook.
createdAt	string,
updatedAt	string,
mostRecentDeployment	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• deploymentId integer, The ID for this deployment.</li> <li>• userId integer, The ID of the owner.</li> <li>• host string, Domain of the deployment.</li> <li>• name string, Name of the deployment.</li> <li>• dockerImageName string, The name of the docker image to pull from DockerHub.</li> <li>• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li> <li>• displayUrl string, A signed URL for viewing the deployed item.</li> <li>• instanceType string, The EC2 instance type requested for the deployment.</li> <li>• memory integer, The memory allocated to the deployment.</li> <li>• cpu integer, The cpu allocated to the deployment.</li> <li>• state string, The state of the deployment.</li> <li>• stateMessage string, A detailed description of the state.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> <li>• published boolean,</li> <li>• notebookId integer, The ID of owning Notebook</li> </ul>
credentials	array, A list of credential IDs to pass to the notebook.
environmentVariables	<p>list, Environment variables to be passed into the Notebook.</p>
idleTimeout	integer, How long the notebook will stay alive without any kernel activity.
gitRepoId	integer, The ID of the git repository.
gitRepoUrl	string, The url of the git repository
gitRef	string, The git reference if git repo is specified
gitPath	string, The path to the .ipynb file in the git repo that will be started up on notebook launch
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.

---

notebooks\_put\_archive *Update the archive status of this object*

---

**Description**

Update the archive status of this object

**Usage**

```
notebooks_put_archive(id, status)
```

**Arguments**

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

id	integer, The ID for this notebook.
name	string, The name of this notebook.
language	string, The kernel language of this notebook.
description	string, The description of this notebook.
notebookUrl	string, Time-limited URL to get the .ipynb file for this notebook.
notebookPreviewUrl	string, Time-limited URL to get the .htm preview file for this notebook.
requirementsUrl	string, Time-limited URL to get the requirements.txt file for this notebook.
fileId	string, The file ID for the S3 file containing the .ipynb file.
requirementsFileId	string, The file ID for the S3 file containing the requirements.txt file.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>id integer, The ID of this user.</li> <li>name string, This user's name.</li> <li>username string, This user's username.</li> <li>initials string, This user's initials.</li> <li>online boolean, Whether this user is online.</li> </ul>
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
instanceType	string, The EC2 instance type to deploy to.
memory	integer, The amount of memory allocated to the notebook.

cpu	integer, The amount of cpu allocated to the the notebook.
createdAt	string,
updatedAt	string,
mostRecentDeployment	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• deploymentId integer, The ID for this deployment.</li> <li>• userId integer, The ID of the owner.</li> <li>• host string, Domain of the deployment.</li> <li>• name string, Name of the deployment.</li> <li>• dockerImageName string, The name of the docker image to pull from DockerHub.</li> <li>• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li> <li>• displayUrl string, A signed URL for viewing the deployed item.</li> <li>• instanceType string, The EC2 instance type requested for the deployment.</li> <li>• memory integer, The memory allocated to the deployment.</li> <li>• cpu integer, The cpu allocated to the deployment.</li> <li>• state string, The state of the deployment.</li> <li>• stateMessage string, A detailed description of the state.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> <li>• published boolean,</li> <li>• notebookId integer, The ID of owning Notebook</li> </ul>
credentials	array, A list of credential IDs to pass to the notebook.
environmentVariables	list, Environment variables to be passed into the Notebook.
idleTimeout	integer, How long the notebook will stay alive without any kernel activity.
gitRepoId	integer, The ID of the git repository.
gitRepoUrl	string, The url of the git repository
gitRef	string, The git reference if git repo is specified
gitPath	string, The path to the .ipynb file in the git repo that will be started up on notebook launch
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.



---

notebooks_put_git	<i>Attach an item to a file in a git repo</i>
-------------------	---

---

**Description**

Attach an item to a file in a git repo

**Usage**

```
notebooks_put_git(
  id,
  git_ref = NULL,
  git_branch = NULL,
  git_path = NULL,
  git_repo_url = NULL,
  pull_from_git = NULL
)
```

**Arguments**

<code>id</code>	integer required. The ID of the file.
<code>git_ref</code>	string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
<code>git_branch</code>	string optional. The git branch that the file is on.
<code>git_path</code>	string optional. The path of the file in the repository.
<code>git_repo_url</code>	string optional. The URL of the git repository.
<code>pull_from_git</code>	boolean optional. Automatically pull latest commit from git. Only works for scripts.

**Value**

A list containing the following elements:

<code>gitRef</code>	string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
<code>gitBranch</code>	string, The git branch that the file is on.
<code>gitPath</code>	string, The path of the file in the repository.
<code>gitRepo</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• <code>id</code> integer, The ID for this git repository.</li> <li>• <code>repoUrl</code> string, The URL for this git repository.</li> <li>• <code>createdAt</code> string,</li> <li>• <code>updatedAt</code> string,</li> </ul>
<code>pullFromGit</code>	boolean, Automatically pull latest commit from git. Only works for scripts.

---

notebooks\_put\_projects

*Add a Notebook to a project*

---

### **Description**

Add a Notebook to a project

### **Usage**

```
notebooks_put_projects(id, project_id)
```

### **Arguments**

id	integer required. The ID of the Notebook.
project_id	integer required. The ID of the project.

### **Value**

An empty HTTP response

---

notebooks\_put\_shares\_groups

*Set the permissions groups has on this object*

---

### **Description**

Set the permissions groups has on this object

### **Usage**

```
notebooks_put_shares_groups(  
  id,  
  group_ids,  
  permission_level,  
  share_email_body = NULL,  
  send_shared_email = NULL  
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

notebooks\_put\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
notebooks_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

notifications\_list     *Receive a stream of notifications as they come in*

---

**Description**

Receive a stream of notifications as they come in

**Usage**

```
notifications_list(last_event_id = NULL, r = NULL, mock = NULL)
```

**Arguments**

last_event_id	string optional. allows browser to keep track of last event fired
r	string optional. specifies retry/reconnect timeout
mock	string optional. used for testing

**Value**

An empty HTTP response

---

ontology_list	<i>List the ontology of column names Cavis uses</i>
---------------	---

---

**Description**

List the ontology of column names Cavis uses

**Usage**

```
ontology_list(subset = NULL)
```

**Arguments**

subset	string optional. A subset of fields to return.
--------	--

**Value**

An array containing the following fields:

key	string,
title	string,
desc	string, A description of this field.
aliases	array,

---

`plot.civis_ml_classifier`*Decile plot for classification with civis\_ml*

---

**Description**

Decile plot for classification with civis\_ml

**Usage**

```
## S3 method for class 'civis_ml_classifier'  
plot(x, name = NULL, ...)
```

**Arguments**

<code>x</code>	civis_ml object.
<code>name</code>	Name of the class in a multiclass model to plot.
<code>...</code>	unused.

**Value**

A ggplot2 plot object is returned invisibly.

---

`plot.civis_ml_regressor`*Y-yhat plot for regression with civis\_ml*

---

**Description**

Y-yhat plot for regression with civis\_ml

**Usage**

```
## S3 method for class 'civis_ml_regressor'  
plot(x, ...)
```

**Arguments**

<code>x</code>	civis_ml object
<code>...</code>	unused

**Value**

A ggplot2 plot object is returned invisibly.

---

predictions_get	<i>Show the specified prediction</i>
-----------------	--------------------------------------

---

**Description**

Show the specified prediction

**Usage**

```
predictions_get(id)
```

**Arguments**

id                    integer required. The ID of the prediction.

**Value**

A list containing the following elements:

id	integer, The ID of the prediction.
modelId	integer, The ID of the model used for this prediction.
scoredTableId	integer, The ID of the source table for this prediction.
scoredTableName	string, The name of the source table for this prediction.
outputTableName	string, The name of the output table for this prediction.
state	string, The state of the last run of this prediction.
error	string, The error, if any, of the last run of this prediction.
startedAt	string, The start time of the last run of this prediction.
finishedAt	string, The end time of the last run of this prediction.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
scoredTables	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of the table with created predictions.</li> <li>• schema string, The schema of table with created predictions.</li> <li>• name string, The name of table with created predictions.</li> <li>• createdAt string, The time when the table with created predictions was created.</li> </ul>

	<ul style="list-style-type: none"> <li>• scoreStats array, An array of metrics on the created predictions.</li> </ul>
schedule	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
limitingSQL	string, A SQL WHERE clause used to scope the rows to be predicted.
primaryKey	array, The primary key or composite keys of the table being predicted.

---

predictions_list	<i>List predictions</i>
------------------	-------------------------

---

## Description

List predictions

## Usage

```
predictions_list(model_id = NULL)
```

## Arguments

model_id	integer optional. If specified, only return predictions associated with this model ID.
----------	--

## Value

An array containing the following fields:

id	integer, The ID of the prediction.
modelId	integer, The ID of the model used for this prediction.
scoredTableId	integer, The ID of the source table for this prediction.
scoredTableName	string, The name of the source table for this prediction.
outputTableName	string, The name of the output table for this prediction.
state	string, The state of the last run of this prediction.
error	string, The error, if any, of the last run of this prediction.
startedAt	string, The start time of the last run of this prediction.
finishedAt	string, The end time of the last run of this prediction.
lastRun	list, A list containing the following elements:



- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

predictions\_list\_schedules

*Show the prediction schedule*

### Description

Show the prediction schedule

### Usage

predictions\_list\_schedules(id)

### Arguments

id integer required. ID of the prediction associated with this schedule.

### Value

A list containing the following elements:

id	integer, ID of the prediction associated with this schedule.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
scoreOnModelBuild	boolean, Whether the prediction will run after a rebuild of the associated model.

---

```
print.civis_api      Print results from a Civis API call
```

---

**Description**

Print results from a Civis API call

**Usage**

```
## S3 method for class 'civis_api'
print(x, ...)
```

**Arguments**

```
x          A civis_api response.
...        Further arguments passed to str
```

**Value**

The 'civis\_api' object, invisibly.

**Examples**

```
## Not run:
query_civis("SELECT * FROM schema.my_table", "database", preview_rows = 100)
csv_to_civis("file.csv", "my_database", "schema.my_table")
print(databases_list(), max = 5)

## End(Not run)
```

---

```
projects_delete      Archive a project (deprecated, use the /archive endpoint instead)
```

---

**Description**

Archive a project (deprecated, use the /archive endpoint instead)

**Usage**

```
projects_delete(project_id)
```

**Arguments**

```
project_id  integer required.
```

**Value**

An empty HTTP response

---

projects\_delete\_parent\_projects  
*Remove an item from a Parent Project*

---

**Description**

Remove an item from a Parent Project

**Usage**

```
projects_delete_parent_projects(id, parent_project_id)
```

**Arguments**

id                   integer required. The ID of the item.  
parent\_project\_id   integer required. The ID of the Parent Project.

**Value**

An empty HTTP response

---

projects\_delete\_shares\_groups  
*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
projects_delete_shares_groups(id, group_id)
```

**Arguments**

id                   integer required. The ID of the resource that is shared.  
group\_id           integer required. The ID of the group.

**Value**

An empty HTTP response

---

projects\_delete\_shares\_users  
*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

projects\_delete\_shares\_users(id, user\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

projects\_get      *Get a detailed view of a project and the objects in it*

---

**Description**

Get a detailed view of a project and the objects in it

**Usage**

projects\_get(project\_id)

**Arguments**

project_id	integer required.
------------	-------------------

**Value**

A list containing the following elements:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> </ul>

	<ul style="list-style-type: none"><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
tables	array, An array containing the following fields: <ul style="list-style-type: none"><li>• schema string,</li><li>• name string,</li><li>• rowCount integer,</li><li>• columnCount integer,</li><li>• createdAt string,</li><li>• updatedAt string,</li></ul>
surveys	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li></ul>
scripts	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• type string,</li><li>• finishedAt string,</li><li>• state string,</li><li>• lastRun object,</li></ul>
imports	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• type string,</li><li>• finishedAt string,</li></ul>

	<ul style="list-style-type: none"><li>• state string,</li><li>• lastRun object,</li></ul>
exports	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• type string,</li><li>• finishedAt string,</li><li>• state string,</li><li>• lastRun object,</li></ul>
models	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• state string,</li></ul>
notebooks	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• currentDeploymentId integer,</li><li>• lastDeploy object,</li></ul>
services	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• currentDeploymentId integer,</li><li>• lastDeploy object,</li></ul>
workflows	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• state string,</li><li>• lastExecution object,</li></ul>
reports	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li></ul>

	<ul style="list-style-type: none"><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• state string,</li></ul>
scriptTemplates	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li></ul>
files	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• fileName string,</li><li>• fileSize integer,</li><li>• expired boolean,</li></ul>
enhancements	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• lastRun object,</li></ul>
appInstances	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• slug string,</li></ul>
projects	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• description string,</li></ul>
allObjects	array, An array containing the following fields: <ul style="list-style-type: none"><li>• projectId integer,</li><li>• objectId integer,</li><li>• objectType string,</li><li>• fcoType string,</li><li>• subType string,</li></ul>

	<ul style="list-style-type: none"> <li>• name string,</li> <li>• icon string,</li> <li>• author string,</li> <li>• updatedAt string,</li> <li>• archived string, The archival status of the requested item(s).</li> <li>• hidden boolean, The hidden status of the item.</li> </ul>
note	string,
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
parentProject	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The parent project's ID.</li> <li>• name integer, The parent project's name.</li> </ul>

---

projects_list	<i>List projects</i>
---------------	----------------------

---

### Description

List projects

### Usage

```
projects_list(
  author = NULL,
  permission = NULL,
  hidden = NULL,
  archived = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

### Arguments

author	string optional. If specified, return projects owned by this author. It accepts a comma-separated list of author ids.
permission	string optional. A permissions string, one of "read", "write", or "manage". Lists only projects for which the current user has that permission.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
archived	string optional. The archival status of the requested item(s).
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 1000.



page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

projects\_list\_parent\_projects

*List the Parent Projects an item belongs to*

---

**Description**

List the Parent Projects an item belongs to

**Usage**

projects\_list\_parent\_projects(id, hidden = NULL)

**Arguments**

id	integer required. The ID of the item.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

projects\_list\_shares *List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

```
projects_list_shares(id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
----	--

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

projects_post	<i>Create a project</i>
---------------	-------------------------

---

**Description**

Create a project

**Usage**

```
projects_post(name, description, note = NULL, hidden = NULL)
```

**Arguments**

name	string required. The name of this project.
description	string required. A description of the project.
note	string optional. Notes for the project.
hidden	boolean optional. The hidden status of the item.

**Value**

A list containing the following elements:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
tables	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• schema string,</li> <li>• name string,</li> <li>• rowCount integer,</li> <li>• columnCount integer,</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> </ul>
surveys	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The item's ID.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> </ul>
scripts	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The item's ID.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> <li>• name string,</li> <li>• type string,</li> <li>• finishedAt string,</li> <li>• state string,</li> </ul>

	<ul style="list-style-type: none"><li>• lastRun object,</li></ul>
imports	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• type string,</li><li>• finishedAt string,</li><li>• state string,</li><li>• lastRun object,</li></ul>
exports	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• type string,</li><li>• finishedAt string,</li><li>• state string,</li><li>• lastRun object,</li></ul>
models	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• state string,</li></ul>
notebooks	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• currentDeploymentId integer,</li><li>• lastDeploy object,</li></ul>
services	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• currentDeploymentId integer,</li><li>• lastDeploy object,</li></ul>
workflows	array, An array containing the following fields:

	<ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• state string,</li><li>• lastExecution object,</li></ul>
reports	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• state string,</li></ul>
scriptTemplates	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li></ul>
files	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• fileName string,</li><li>• fileSize integer,</li><li>• expired boolean,</li></ul>
enhancements	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• lastRun object,</li></ul>
appInstances	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• slug string,</li></ul>
projects	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li></ul>

	<ul style="list-style-type: none"> <li>• name string,</li> <li>• description string,</li> </ul>
allObjects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• projectId integer,</li> <li>• objectId integer,</li> <li>• objectType string,</li> <li>• fcoType string,</li> <li>• subType string,</li> <li>• name string,</li> <li>• icon string,</li> <li>• author string,</li> <li>• updatedAt string,</li> <li>• archived string, The archival status of the requested item(s).</li> <li>• hidden boolean, The hidden status of the item.</li> </ul>
note	string,
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
parentProject	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The parent project's ID.</li> <li>• name integer, The parent project's name.</li> </ul>

---

 projects\_put

*Update a project*


---

### Description

Update a project

### Usage

```

projects_put(
  project_id,
  name = NULL,
  description = NULL,
  note = NULL,
  auto_share = NULL
)

```

### Arguments

project_id	integer required.
name	string optional. The name of this project.
description	string optional. A description of the project.
note	string optional. Notes for the project.
auto_share	boolean optional. A toggle for sharing the objects within the project when the project is shared. This does not automatically share new objects to the project.

**Value**

A list containing the following elements:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
tables	array, An array containing the following fields: <ul style="list-style-type: none"><li>• schema string,</li><li>• name string,</li><li>• rowCount integer,</li><li>• columnCount integer,</li><li>• createdAt string,</li><li>• updatedAt string,</li></ul>
surveys	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li></ul>
scripts	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• type string,</li><li>• finishedAt string,</li><li>• state string,</li></ul>



	<ul style="list-style-type: none"><li>• lastRun object,</li></ul>
imports	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• type string,</li><li>• finishedAt string,</li><li>• state string,</li><li>• lastRun object,</li></ul>
exports	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• type string,</li><li>• finishedAt string,</li><li>• state string,</li><li>• lastRun object,</li></ul>
models	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• state string,</li></ul>
notebooks	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• currentDeploymentId integer,</li><li>• lastDeploy object,</li></ul>
services	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• currentDeploymentId integer,</li><li>• lastDeploy object,</li></ul>
workflows	array, An array containing the following fields:

	<ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• state string,</li><li>• lastExecution object,</li></ul>
reports	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• state string,</li></ul>
scriptTemplates	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li></ul>
files	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• fileName string,</li><li>• fileSize integer,</li><li>• expired boolean,</li></ul>
enhancements	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• lastRun object,</li></ul>
appInstances	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• slug string,</li></ul>
projects	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li></ul>

	<ul style="list-style-type: none"> <li>• name string,</li> <li>• description string,</li> </ul>
allObjects	<p>array, An array containing the following fields:</p> <ul style="list-style-type: none"> <li>• projectId integer,</li> <li>• objectId integer,</li> <li>• objectType string,</li> <li>• fcoType string,</li> <li>• subType string,</li> <li>• name string,</li> <li>• icon string,</li> <li>• author string,</li> <li>• updatedAt string,</li> <li>• archived string, The archival status of the requested item(s).</li> <li>• hidden boolean, The hidden status of the item.</li> </ul>
note	string,
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
parentProject	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The parent project's ID.</li> <li>• name integer, The parent project's name.</li> </ul>

---

projects\_put\_archive *Update the archive status of this object*

---

### Description

Update the archive status of this object

### Usage

```
projects_put_archive(id, status)
```

### Arguments

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
tables	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• schema string,</li> <li>• name string,</li> <li>• rowCount integer,</li> <li>• columnCount integer,</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> </ul>
surveys	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The item's ID.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> </ul>
scripts	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The item's ID.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> <li>• name string,</li> <li>• type string,</li> <li>• finishedAt string,</li> <li>• state string,</li> </ul>

	<ul style="list-style-type: none"><li>• lastRun object,</li></ul>
imports	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• type string,</li><li>• finishedAt string,</li><li>• state string,</li><li>• lastRun object,</li></ul>
exports	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• type string,</li><li>• finishedAt string,</li><li>• state string,</li><li>• lastRun object,</li></ul>
models	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• state string,</li></ul>
notebooks	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• currentDeploymentId integer,</li><li>• lastDeploy object,</li></ul>
services	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• currentDeploymentId integer,</li><li>• lastDeploy object,</li></ul>
workflows	array, An array containing the following fields:

	<ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• state string,</li><li>• lastExecution object,</li></ul>
reports	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• state string,</li></ul>
scriptTemplates	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li></ul>
files	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• fileName string,</li><li>• fileSize integer,</li><li>• expired boolean,</li></ul>
enhancements	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• lastRun object,</li></ul>
appInstances	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• name string,</li><li>• slug string,</li></ul>
projects	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The item's ID.</li><li>• createdAt string,</li><li>• updatedAt string,</li></ul>

	<ul style="list-style-type: none"> <li>• name string,</li> <li>• description string,</li> </ul>
allObjects	<p>array, An array containing the following fields:</p> <ul style="list-style-type: none"> <li>• projectId integer,</li> <li>• objectId integer,</li> <li>• objectType string,</li> <li>• fcoType string,</li> <li>• subType string,</li> <li>• name string,</li> <li>• icon string,</li> <li>• author string,</li> <li>• updatedAt string,</li> <li>• archived string, The archival status of the requested item(s).</li> <li>• hidden boolean, The hidden status of the item.</li> </ul>
note	string,
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
parentProject	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The parent project's ID.</li> <li>• name integer, The parent project's name.</li> </ul>

---

projects\_put\_parent\_projects

*Add an item to a Parent Project*

---

## Description

Add an item to a Parent Project

## Usage

```
projects_put_parent_projects(id, parent_project_id)
```

## Arguments

id	integer required. The ID of the item.
parent_project_id	integer required. The ID of the Parent Project.

## Value

An empty HTTP response

---

projects\_put\_shares\_groups

*Set the permissions groups has on this object*

---

### Description

Set the permissions groups has on this object

### Usage

```
projects_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

### Arguments

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

### Value

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.



totalGroupShares  
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

projects\_put\_shares\_users

*Set the permissions users have on this object*

---

## Description

Set the permissions users have on this object

## Usage

```
projects_put_shares_users(  
  id,  
  user_ids,  
  permission_level,  
  share_email_body = NULL,  
  send_shared_email = NULL  
)
```

## Arguments

id integer required. The ID of the resource that is shared.  
user\_ids array required. An array of one or more user IDs.  
permission\_level string required. Options are: "read", "write", or "manage".  
share\_email\_body string optional. Custom body text for e-mail sent on a share.  
send\_shared\_email boolean optional. Send email to the recipients of a share.

## Value

A list containing the following elements:

readers list, A list containing the following elements:

- users array,
- groups array,

writers list, A list containing the following elements:

- users array,
- groups array,

owners list, A list containing the following elements:

- users array,

- groups array,
- totalUserShares  
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- totalGroupShares  
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

publish_addin	<i>Add in to Publish an R Markdown file to Platform Reports from RStudio</i>
---------------	--

---

### Description

This function is called when the "Publish To Civis" button is pressed in the RStudio IDE AddIn menu. It will attempt to save the current changes of the active document and push it to the appropriate location in Platform. RMarkdown files will be rendered to html with [publish\\_rmd](#) and published as a report. Currently only RMarkdown files are supported.

### Usage

```
publish_addin()
```

### See Also

[publish\\_rmd](#) for publishing RMarkdown files

---

publish_html	<i>Publish HTML to Platform Reports</i>
--------------	---

---

### Description

Publish HTML to Platform Reports

### Usage

```
publish_html(  
  html_file,  
  report_id = NULL,  
  report_name = NULL,  
  provide_api_key = NULL,  
  project_id = NULL  
)
```

**Arguments**

html_file	string, HTML file
report_id	integer, ID of an existing report, if provided, the contents of the report will be replaced. If report_id is NULL, a new report will be created.
report_name	string, Title of report in platform
provide_api_key	bool, Set to true to include API key in report.
project_id	integer, Project_id that the report should be added to.

**See Also**

[publish\\_rmd](#) to publish an R Markdown document to Civis

**Examples**

```
## Not run:
# Uploads html and prints link to report in Platform
publish_html("my_beautiful_report.html")

## End(Not run)
```

---

publish\_rmd

*Publish an R Markdown file to Platform Reports*

---

**Description**

Publish an R Markdown file to Platform Reports

**Usage**

```
publish_rmd(
  rmd_file,
  report_id = NULL,
  report_name = NULL,
  provide_api_key = NULL,
  project_id = NULL,
  ...
)
```

**Arguments**

rmd_file	string, R Markdown file (.Rmd)
report_id	integer, ID of an existing report, if provided, the contents of the report will be replaced. If report_id is NULL, a new report will be created.
report_name	string, Title of report in platform

```

provide_api_key    bool, Set to true to include API key in report.
project_id         integer, Project_id that the report should be added to.
...               additional parameters to send to rmarkdown::render. Note: A temporary file
                  will be used for output_file if output_file is not explicitly set and input
                  will be overwritten with rmd_file.

```

## Details

This function also supports passing `report_id`, `report_name`, `provide_api_key` and `project_id` as metadata in the report's YAML front matter. Just as the title of an RMarkdown document can be set with `title: "my title!"`, these parameters can be set like

```

civis:
  report_name: "My Report Name"
  report_id: 9000

```

Since `report_id` is set, this code will overwrite the existing report with that number, which may be useful when updating a report on a schedule. Any argument passed in explicitly to `publish_rmd` will be used in place of the corresponding argument set in YAML metadata.

## Note

`rmarkdown::render` depends on a recent version of `pandoc`. `pandoc` is distributed with RStudio and thus, `publish_rmd` will work in an RStudio environment. Outside of RStudio `pandoc` may be installed or `knitr::knit2html` can be used to convert an R Markdown document into html. The html can then be published to Civis with `publish_html`.

## See Also

[publish\\_html](#) to publish html to Civis

## Examples

```

## Not run:

# Publish a standard report
publish_rmd("my_beautiful_doc.Rmd")

# Publish a parameterized R Markdown document
# See: http://rmarkdown.rstudio.com/developer_parameterized_reports.html
params <- list("region" = "east", start = as.Date("2015-02-01"))
publish_rmd("my_parameterized_doc.Rmd", params=params)

## End(Not run)

```

---

queries\_delete\_runs     *Cancel a run*

---

**Description**

Cancel a run

**Usage**

queries\_delete\_runs(id, run\_id)

**Arguments**

id	integer required. The ID of the query.
run_id	integer required. The ID of the run.

**Value**

An empty HTTP response

---

queries\_get     *Get details about a query*

---

**Description**

Get details about a query

**Usage**

queries\_get(id)

**Arguments**

id	integer required. The query ID.
----	---------------------------------

**Value**

A list containing the following elements:

id	integer, The query ID.
database	integer, The database ID.
sql	string, The SQL to execute.
credential	integer, The credential ID.
resultRows	array, A preview of rows returned by the query.
resultColumns	array, A preview of columns returned by the query.

scriptId	integer, The ID of the script associated with this query.
exception	string, Deprecated and not used.
error	string, The error message for this run, if present.
createdAt	string,
updatedAt	string,
finishedAt	string, The end time of the last run.
state	string, The state of the last run.
lastRunId	integer, The ID of the last run.
hidden	boolean, The hidden status of the item.
name	string, The name of the query.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
startedAt	string, The start time of the last run.
reportId	integer, The ID of the report associated with this query.

---

queries\_get\_runs      *Check status of a run*

---

### Description

Check status of a run

### Usage

```
queries_get_runs(id, run_id)
```

### Arguments

id	integer required. The ID of the query.
run_id	integer required. The ID of the run.

**Value**

A list containing the following elements:

id	integer, The ID of the run.
queryId	integer, The ID of the query.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

queries_list	<i>List</i>
--------------	-------------

---

**Description**

List

**Usage**

```
queries_list(
  database_id = NULL,
  author_id = NULL,
  created_before = NULL,
  exclude_results = NULL,
  hidden = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

database_id	integer optional. The database ID.
author_id	integer optional. The author of the query.
created_before	string optional. An upper bound for the creation date of the query.
exclude_results	boolean optional. If true, does not return cached query results.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The query ID.
database	integer, The database ID.
sql	string, The SQL to execute.
credential	integer, The credential ID.
resultRows	array, A preview of rows returned by the query.
resultColumns	array, A preview of columns returned by the query.
scriptId	integer, The ID of the script associated with this query.
exception	string, Deprecated and not used.
error	string, The error message for this run, if present.
createdAt	string,
updatedAt	string,
finishedAt	string, The end time of the last run.
state	string, The state of the last run.
lastRunId	integer, The ID of the last run.
previewRows	integer, The number of rows to save from the query's result (maximum: 100).
startedAt	string, The start time of the last run.
reportId	integer, The ID of the report associated with this query.

---

queries\_list\_runs      *List runs for the given query*

---

**Description**

List runs for the given query



**Usage**

```
queries_list_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

<code>id</code>	integer required. The ID of the query.
<code>limit</code>	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
<code>page_num</code>	integer optional. Page number of the results to return. Defaults to the first page, 1.
<code>order</code>	string optional. The field on which to order the result set. Defaults to <code>id</code> . Must be one of: <code>id</code> .
<code>order_dir</code>	string optional. Direction in which to sort, either <code>asc</code> (ascending) or <code>desc</code> (descending) defaulting to <code>desc</code> .

**Value**

An array containing the following fields:

<code>id</code>	integer, The ID of the run.
<code>queryId</code>	integer, The ID of the query.
<code>state</code>	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
<code>isCancelRequested</code>	boolean, True if run cancel requested, else false.
<code>startedAt</code>	string, The time the last run started at.
<code>finishedAt</code>	string, The time the last run completed.
<code>error</code>	string, The error, if any, returned by the run.

---

`queries_list_runs_logs`

*Get the logs for a run*

---

**Description**

Get the logs for a run

**Usage**

```
queries_list_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

<code>id</code>	integer required. The ID of the query.
<code>run_id</code>	integer required. The ID of the run.
<code>last_id</code>	integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by <code>createdAt</code> .
<code>limit</code>	integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

<code>id</code>	integer, The ID of the log.
<code>createdAt</code>	string, The time the log was created.
<code>message</code>	string, The log message.
<code>level</code>	string, The level of the log. One of <code>unknown</code> , <code>fatal</code> , <code>error</code> , <code>warn</code> , <code>info</code> , <code>debug</code> .

---

<code>queries_post</code>	<i>Execute a query</i>
---------------------------	------------------------

---

**Description**

Execute a query

**Usage**

```
queries_post(
  database,
  sql,
  preview_rows,
  credential = NULL,
  hidden = NULL,
  interactive = NULL,
  include_header = NULL,
  compression = NULL,
  column_delimiter = NULL,
  unquoted = NULL,
  filename_prefix = NULL
)
```

**Arguments**

database	integer required. The database ID.
sql	string required. The SQL to execute.
preview_rows	integer required. The number of rows to save from the query's result (maximum: 100).
credential	integer optional. The credential ID.
hidden	boolean optional. The hidden status of the item.
interactive	boolean optional. Deprecated and not used.
include_header	boolean optional. Whether the CSV output should include a header row [default: true].
compression	string optional. The type of compression. One of gzip or zip, or none [default: gzip].
column_delimiter	string optional. The delimiter to use. One of comma or tab, or pipe [default: comma].
unquoted	boolean optional. If true, will not quote fields.
filename_prefix	string optional. The output filename prefix.

**Value**

A list containing the following elements:

id	integer, The query ID.
database	integer, The database ID.
sql	string, The SQL to execute.
credential	integer, The credential ID.
resultRows	array, A preview of rows returned by the query.
resultColumns	array, A preview of columns returned by the query.
scriptId	integer, The ID of the script associated with this query.
exception	string, Deprecated and not used.
error	string, The error message for this run, if present.
createdAt	string,
updatedAt	string,
finishedAt	string, The end time of the last run.
state	string, The state of the last run.
lastRunId	integer, The ID of the last run.
hidden	boolean, The hidden status of the item.
interactive	boolean, Deprecated and not used.
previewRows	integer, The number of rows to save from the query's result (maximum: 100).

includeHeader	boolean, Whether the CSV output should include a header row [default: true].
compression	string, The type of compression. One of gzip or zip, or none [default: gzip].
columnDelimiter	string, The delimiter to use. One of comma or tab, or pipe [default: comma].
unquoted	boolean, If true, will not quote fields.
filenamePrefix	string, The output filename prefix.
startedAt	string, The start time of the last run.
reportId	integer, The ID of the report associated with this query.

---

queries_post_runs	<i>Start a run</i>
-------------------	--------------------

---

## Description

Start a run

## Usage

```
queries_post_runs(id)
```

## Arguments

id	integer required. The ID of the query.
----	--

## Value

A list containing the following elements:

id	integer, The ID of the run.
queryId	integer, The ID of the query.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

queries\_put\_scripts     *Update the query's associated script*

---

**Description**

Update the query's associated script

**Usage**

queries\_put\_scripts(id, script\_id)

**Arguments**

id	integer required. The query ID.
script_id	integer required. The ID of the script associated with this query.

**Value**

A list containing the following elements:

id	integer, The query ID.
database	integer, The database ID.
sql	string, The SQL to execute.
credential	integer, The credential ID.
resultRows	array, A preview of rows returned by the query.
resultColumns	array, A preview of columns returned by the query.
scriptId	integer, The ID of the script associated with this query.
exception	string, Deprecated and not used.
error	string, The error message for this run, if present.
createdAt	string,
updatedAt	string,
finishedAt	string, The end time of the last run.
state	string, The state of the last run.
lastRunId	integer, The ID of the last run.
hidden	boolean, The hidden status of the item.
name	string, The name of the query.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
startedAt	string, The start time of the last run.
reportId	integer, The ID of the report associated with this query.

---

`query_civis`*Run a Query on Platform*

---

### Description

Utility to run queries that return no output.

A default database can be set using `options(civis.default_db = "my_database")`. If there is only one database available, this database will automatically be used as the default.

### Usage

```
query_civis(x, ...)  
  
## S3 method for class 'sql'  
query_civis(x, database = NULL, verbose = FALSE, ...)  
  
## S3 method for class 'numeric'  
query_civis(x, verbose = FALSE, ...)  
  
## S3 method for class 'character'  
query_civis(x, database = NULL, verbose = FALSE, ...)
```

### Arguments

<code>x</code>	sql("..."), "query", or id of an existing sql script.
<code>...</code>	arguments passed to <code>queries_post</code> .
<code>database</code>	string, Name of database where query is run.
<code>verbose</code>	bool, Print detailed updates of job status.

### Methods (by class)

- `sql`: Run a SQL query.
- `numeric`: Run a SQL query from a previous SQL query id.
- `character`: Run a SQL query.

### See Also

[read\\_civis](#) for downloading results of SQL scripts from Civis Platform as a data frame.

io

Other io: [download\\_civis\(\)](#), [query\\_civis\\_file\(\)](#), [read\\_civis\(\)](#), [write\\_civis\\_file\(\)](#), [write\\_civis\(\)](#)

## Examples

```
## Not run:
query_civis("GRANT ALL ON schema.my_table TO GROUP admin", "database", credential=0000)

## End(Not run)
```

---

query_civis_file	<i>Export results from a query to S3 and return a file id.</i>
------------------	--

---

## Description

Exports results from a Redshift SQL query, and returns the id of the file on S3 for use with [read\\_civis](#) or [download\\_civis](#).

## Usage

```
query_civis_file(x, ...)
```

```
## S3 method for class 'character'
query_civis_file(
  x,
  database = NULL,
  job_name = NULL,
  hidden = TRUE,
  verbose = verbose,
  csv_settings = NULL,
  ...
)
```

```
## S3 method for class 'sql'
query_civis_file(
  x,
  database = NULL,
  job_name = NULL,
  hidden = TRUE,
  verbose = FALSE,
  csv_settings = NULL,
  ...
)
```

```
## S3 method for class 'numeric'
query_civis_file(x, database = NULL, verbose = FALSE, ...)
```

**Arguments**

x	"schema.table", sql("query"), or a sql script job id.
...	Options passed to <a href="#">scripts_post_sql</a> , including credential.
database	string, Name of database where data frame is to be uploaded. If no database is specified, uses <code>options(civis.default_db)</code> .
job_name	string, Name of the job (default: "Civis S3 Export Via R Client").
hidden	bool, Whether the job is hidden.
verbose	bool, Set to TRUE to print intermediate progress indicators.
csv_settings	See <a href="#">scripts_post_sql</a> for details.

**Details**

By default, the export uses the default `csv_settings` in [scripts\\_post\\_sql](#), which is a gzipped csv.

**Methods (by class)**

- `character`: Export a "schema.table" to a file id.
- `sql`: Export results of a query to a file id.
- `numeric`: Run an existing sql script and return the file id of the results on S3.

**See Also**

Other io: [download\\_civis\(\)](#), [query\\_civis\(\)](#), [read\\_civis\(\)](#), [write\\_civis\\_file\(\)](#), [write\\_civis\(\)](#)

**Examples**

```
## Not run:
id <- query_civis_file("schema.tablename", database = "my_database")
df <- read_civis(id, using = read.csv)

query <- sql("SELECT * FROM table JOIN other_table USING id WHERE var1 < 23")
id <- query_civis_file(query)
df <- read_civis(id, using = read.csv)

id <- query_civis_file(query_id, credential_id = 0000)
df <- read_civis(id, using = read.csv)

## End(Not run)
```



---

read_civis	<i>Read tables and files from Civis Platform</i>
------------	--

---

### Description

read\_civis loads a table from Redshift as a data frame if given a "schema.table" or sql("query") as the first argument, or loads a file from Amazon S3 (the files endpoint) if a file id is given. Run outputs from any Civis platform script are returned if a [civis\\_script](#) is given.

A default database can be set using options(civis.default\_db = "my\_database"). If there is only one database available, this database will automatically be used as the default.

### Usage

```
read_civis(x, ...)

## S3 method for class 'numeric'
read_civis(x, using = read.csv, verbose = FALSE, ...)

## S3 method for class 'character'
read_civis(x, database = NULL, ...)

## S3 method for class 'sql'
read_civis(
  x,
  database = NULL,
  using = utils::read.csv,
  job_name = NULL,
  hidden = TRUE,
  verbose = FALSE,
  ...
)

## S3 method for class 'civis_script'
read_civis(x, using, regex = NULL, ...)
```

### Arguments

x	"schema.table", sql("query"), or a file id.
...	arguments passed to using.
using	function, Function to convert the file to a data frame or to unserialize. the file (e.g. read.csv or readRDS).
verbose	bool, Set to TRUE to print intermediate progress indicators.
database	string, Name of database where data frame is to be uploaded. If no database is specified, uses options(civis.default_db).
job_name	string, Name of the job (default: "Civis Export Via R Client").

hidden	bool, Whether the job is hidden.
regex	Regex of matching run output names.

### Details

By default, `read_civis.numeric` assumes the file is a CSV. For reading a serialized R object, set `using = readRDS` for example.

If `using = NULL`, `read_civis.civis_script` will return all JSONValues with name matching `regex`. Otherwise all File run outputs matching `regex` will be read into memory with `using`. Results are always a named list. If the script has no outputs, an empty list will be returned.

### Methods (by class)

- `numeric`: Return a file as a data frame
- `character`: Return all columns from a table as a data frame.
- `sql`: Return a SQL query as a data frame.
- `civis_script`: Return run outputs of a `civis_script` as a named list.

### See Also

Other io: [download\\_civis\(\)](#), [query\\_civis\\_file\(\)](#), [query\\_civis\(\)](#), [write\\_civis\\_file\(\)](#), [write\\_civis\(\)](#)

### Examples

```
## Not run:
# Read all columns in a single table
df <- read_civis("schema.my_table", database = "my_database")

# Read data from a SQL select statement
query <- sql("SELECT * FROM table JOIN other_table USING id WHERE var1 < 23")
df <- read_civis(query, database = "my_database")

# Read an R object from the files endpoint.
id <- write_civis_file(df)
df <- read_civis(id)

# Read a text file or csv from the files endpoint.
id <- write_civis_file("my_csv.csv")
df <- read_civis(id)

# Read JSONValues from a civis script
vals <- read_civis(civis_script(1234))

# Read File run outputs from a civis script
df <- read_civis(civis_script(1234), regex = '.csv', using = read.csv)
obj <- read_civis(civis_script(1234), regex = '.rds', using = readRDS)

# Gracefully handle when read_civis.sql returns no rows
query <- sql("SELECT * FROM table WHERE 1 = 2")
mean_x <- tryCatch({
```

```

df <- read_civis(query, database = "my_database")
mean(df$x)
}, empty_result_error = function(e) {
  NA
})

## End(Not run)

```

---

refresh_table	<i>Refresh a table</i>
---------------	------------------------

---

### Description

Refreshes a table on Redshift using [tables\\_post\\_refresh](#), which runs the table scanner and updates table meta-data.

### Usage

```
refresh_table(tablename, database = NULL, verbose = FALSE)
```

### Arguments

tablename	string, Name of table and schema "schema.tablename"
database	string, Name of database where data frame is to be uploaded. If no database is specified, uses <code>options(civis.default_db)</code>
verbose	bool, Set to TRUE to print intermediate progress indicators.

### Value

Returns table meta-data from [tables\\_get](#).

### See Also

Other tables: [get\\_table\\_id\(\)](#), [transfer\\_table\(\)](#)

---

remote_hosts_list	<i>List the remote hosts</i>
-------------------	------------------------------

---

### Description

List the remote hosts

### Usage

```
remote_hosts_list(type = NULL)
```

**Arguments**

type string optional. The type of remote host. One of: RemoteHostTypes::Bitbucket, RemoteHostTypes::GitSSH, RemoteHostTypes::Github, RemoteHostTypes::GoogleDoc, RemoteHostTypes::JDBC, RemoteHostTypes::Postgres, RemoteHostTypes::Redshift, RemoteHostTypes::S3Storage, and RemoteHostTypes::Salesforce

**Value**

An array containing the following fields:

id	integer, The ID of the remote host.
name	string, The name of the remote host.
type	string, The type of remote host. One of: RemoteHostTypes::Bitbucket, RemoteHostTypes::GitSSH, RemoteHostTypes::Github, RemoteHostTypes::GoogleDoc, RemoteHostTypes::JDBC, RemoteHostTypes::Postgres, RemoteHostTypes::Redshift, RemoteHostTypes::S3Storage, and RemoteHostTypes::Salesforce
url	string, The URL for remote host.

---

remote\_hosts\_list\_data\_sets

*List data sets available from a remote host*

---

**Description**

List data sets available from a remote host

**Usage**

```
remote_hosts_list_data_sets(
  id,
  credential_id = NULL,
  username = NULL,
  password = NULL,
  q = NULL,
  s = NULL
)
```

**Arguments**

id	integer required. The ID of the remote host.
credential_id	integer optional. The credential ID.
username	string optional. The user name for remote host.
password	string optional. The password for remote host.
q	string optional. The query string for data set.
s	boolean optional. If true will only return schemas, otherwise, the results will be the full path.

**Value**

An array containing the following fields:

name	string, The path to a data_set.
fullPath	boolean, Boolean that indicates whether further querying needs to be done before the table can be selected.

---

remote_hosts_post	<i>Create a new remote host</i>
-------------------	---------------------------------

---

**Description**

Create a new remote host

**Usage**

```
remote_hosts_post(name, url, type)
```

**Arguments**

name	string required. The human readable name for the remote host.
url	string required. The URL to your host.
type	string required. The type of remote host. One of: RemoteHostTypes::Bitbucket, RemoteHostTypes::GitSSH, RemoteHostTypes::Github, RemoteHostTypes::GoogleDoc, RemoteHostTypes::JDBC, RemoteHostTypes::Postgres, RemoteHostTypes::Redshift, RemoteHostTypes::S3Storage, and RemoteHostTypes::Salesforce

**Value**

A list containing the following elements:

id	integer, The ID of the remote host.
name	string, The name of the remote host.
type	string, The type of remote host. One of: RemoteHostTypes::Bitbucket, RemoteHostTypes::GitSSH, RemoteHostTypes::Github, RemoteHostTypes::GoogleDoc, RemoteHostTypes::JDBC, RemoteHostTypes::Postgres, RemoteHostTypes::Redshift, RemoteHostTypes::S3Storage, and RemoteHostTypes::Salesforce
url	string, The URL for remote host.

---

remote\_hosts\_post\_authenticate

*Authenticate against a remote host using either a credential or a user name and password*

---

### Description

Authenticate against a remote host using either a credential or a user name and password

### Usage

```
remote_hosts_post_authenticate(  
  id,  
  credential_id = NULL,  
  username = NULL,  
  password = NULL  
)
```

### Arguments

id	integer required. The ID of the remote host.
credential_id	integer optional. The credential ID.
username	string optional. The user name for remote host.
password	string optional. The password for remote host.

### Value

An empty HTTP response

---

reports\_delete\_grants *Revoke permission for this report to perform Civis platform API operations on your behalf*

---

### Description

Revoke permission for this report to perform Civis platform API operations on your behalf

### Usage

```
reports_delete_grants(id)
```

### Arguments

id	integer required. The ID of this report.
----	--

**Value**

An empty HTTP response

---

reports\_delete\_projects

*Remove a Report from a project*

---

**Description**

Remove a Report from a project

**Usage**

reports\_delete\_projects(id, project\_id)

**Arguments**

id	integer required. The ID of the Report.
project_id	integer required. The ID of the project.

**Value**

An empty HTTP response

---

reports\_delete\_services\_projects

*Remove a Service Report from a project*

---

**Description**

Remove a Service Report from a project

**Usage**

reports\_delete\_services\_projects(id, project\_id)

**Arguments**

id	integer required. The ID of the Service Report.
project_id	integer required. The ID of the project.

**Value**

An empty HTTP response

reports\_delete\_services\_shares\_groups

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

reports\_delete\_services\_shares\_groups(id, group\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

reports\_delete\_services\_shares\_users

*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

reports\_delete\_services\_shares\_users(id, user\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response



---

reports\_delete\_shares\_groups

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

reports\_delete\_shares\_groups(id, group\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

reports\_delete\_shares\_users

*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

reports\_delete\_shares\_users(id, user\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

reports\_get

*Show a single report***Description**

Show a single report

**Usage**

reports\_get(id)

**Arguments**

id	integer required. The ID of this report.
----	--

**Value**

A list containing the following elements:

id	integer, The ID of this report.
name	string, The name of the report.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
createdAt	string,
updatedAt	string,
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
state	string, The status of the report's last run.
finishedAt	string, The time that the report's last run finished.
vizUpdatedAt	string, The time that the report's visualization was last updated.
script	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID for the script.</li> <li>• name string, The name of the script.</li> <li>• sql string, The raw SQL query for the script.</li> </ul>
jobPath	string, The link to details of the job that backs this report.
tableauId	integer,
type	string,

templateId	integer, The ID of the template used for this report.
authThumbnailUrl	string, URL for a thumbnail of the report.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.
authDataUrl	string,
authCodeUrl	string,
config	string, Any configuration metadata for this report.
validOutputFile	boolean, Whether the job (a script or a query) that backs the report currently has a valid output file.
provideAPIKey	boolean, Whether the report requests an API Key from the report viewer.
apiKey	string, A Civic API key that can be used by this report.
apiKeyId	integer, The ID of the API key. Can be used for auditing API use by this report.
appState	list, Any application state blob for this report.
useViewersTableauUsername	boolean, Apply user level filtering on Tableau reports.

---

reports\_get\_git\_commits

*Get file contents at commit\_hash*

---

## Description

Get file contents at commit\_hash

## Usage

```
reports_get_git_commits(id, commit_hash)
```

## Arguments

id	integer required. The ID of the file.
commit_hash	string required. The SHA (full or shortened) of the desired git commit.

**Value**

A list containing the following elements:

content	string, The file's contents.
type	string, The file's type.
size	integer, The file's size.
fileHash	string, The SHA of the file.

---

reports\_get\_services *Show a single service report*

---

**Description**

Show a single service report

**Usage**

reports\_get\_services(id)

**Arguments**

id integer required. The ID of this report.

**Value**

A list containing the following elements:

id	integer, The ID of this report.
name	string, The name of the report.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
createdAt	string,
updatedAt	string,
host	string, The host for the service report
displayUrl	string, The URL to display the service report.
serviceId	integer, The id of the backing service
provideAPIKey	boolean, Whether the report requests an API Key from the report viewer.
apiKey	string, A Civis API key that can be used by this report.
apiKeyId	integer, The ID of the API key. Can be used for auditing API use by this report.

---

 reports\_list

*List Reports*


---

**Description**

List Reports

**Usage**

```
reports_list(
  type = NULL,
  author = NULL,
  template_id = NULL,
  hidden = NULL,
  archived = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

type	string optional. If specified, return report of these types. It accepts a comma-separated list, possible values are 'tableau' or 'other'.
author	string optional. If specified, return reports from this author. It accepts a comma-separated list of author ids.
template_id	integer optional. If specified, return reports using the provided Template.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
archived	string optional. The archival status of the requested item(s).
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The ID of this report.
----	---------------------------------

name	string, The name of the report.
user	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
createdAt	string,
updatedAt	string,
projects	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The ID for the project.</li><li>• name string, The name of the project.</li></ul>
state	string, The status of the report's last run.
finishedAt	string, The time that the report's last run finished.
vizUpdatedAt	string, The time that the report's visualization was last updated.
script	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer, The ID for the script.</li><li>• name string, The name of the script.</li><li>• sql string, The raw SQL query for the script.</li></ul>
jobPath	string, The link to details of the job that backs this report.
tableauId	integer,
type	string,
templateId	integer, The ID of the template used for this report.
authThumbnailUrl	string, URL for a thumbnail of the report.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer,</li><li>• state string,</li><li>• createdAt string, The time that the run was queued.</li><li>• startedAt string, The time that the run started.</li><li>• finishedAt string, The time that the run completed.</li><li>• error string, The error message for this run, if present.</li></ul>
archived	string, The archival status of the requested item(s).



**Value**

A list containing the following elements:

commitHash	string, The SHA of the commit.
authorName	string, The name of the commit's author.
date	string, The commit's timestamp.
message	string, The commit message.

---

reports\_list\_projects *List the projects a Report belongs to*

---

**Description**

List the projects a Report belongs to

**Usage**

```
reports_list_projects(id, hidden = NULL)
```

**Arguments**

id	integer required. The ID of the Report.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> </ul>



	<ul style="list-style-type: none"> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

reports\_list\_services\_projects

*List the projects a Service Report belongs to*

---

### Description

List the projects a Service Report belongs to

### Usage

```
reports_list_services_projects(id, hidden = NULL)
```

### Arguments

id	integer required. The ID of the Service Report.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

### Value

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>

autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

reports\_list\_services\_shares

*List users and groups permissioned on this object*

---

### Description

List users and groups permissioned on this object

### Usage

reports\_list\_services\_shares(id)

### Arguments

id integer required. The ID of the resource that is shared.

### Value

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

reports\_list\_shares    *List users and groups permissioned on this object*

---

### Description

List users and groups permissioned on this object

### Usage

reports\_list\_shares(id)

### Arguments

id                    integer required. The ID of the resource that is shared.

### Value

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"><li>• users array,</li><li>• groups array,</li></ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"><li>• users array,</li><li>• groups array,</li></ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"><li>• users array,</li><li>• groups array,</li></ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

reports_patch	<i>Update a report</i>
---------------	------------------------

---

**Description**

Update a report

**Usage**

```
reports_patch(
  id,
  name = NULL,
  script_id = NULL,
  code_body = NULL,
  config = NULL,
  app_state = NULL,
  provide_api_key = NULL,
  template_id = NULL,
  use_viewers_tableau_username = NULL
)
```

**Arguments**

id	integer required. The ID of the report to modify.
name	string optional. The name of the report.
script_id	integer optional. The ID of the job (a script or a query) used to create this report.
code_body	string optional. The code for the report visualization.
config	string optional.
app_state	list optional. The application state blob for this report.
provide_api_key	boolean optional. Allow the report to provide an API key to front-end code.
template_id	integer optional. The ID of the template used for this report. If null is passed, no template will back this report. Changes to the backing template will reset the report appState.
use_viewers_tableau_username	boolean optional. Apply user level filtering on Tableau reports.

**Value**

A list containing the following elements:

id	integer, The ID of this report.
name	string, The name of the report.
user	list, A list containing the following elements:

	<ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
createdAt	string,
updatedAt	string,
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
state	string, The status of the report's last run.
finishedAt	string, The time that the report's last run finished.
vizUpdatedAt	string, The time that the report's visualization was last updated.
script	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID for the script.</li> <li>• name string, The name of the script.</li> <li>• sql string, The raw SQL query for the script.</li> </ul>
jobPath	string, The link to details of the job that backs this report.
tableauId	integer,
type	string,
templateId	integer, The ID of the template used for this report.
authThumbnailUrl	string, URL for a thumbnail of the report.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.
authDataUrl	string,
authCodeUrl	string,
config	string, Any configuration metadata for this report.
validOutputFile	boolean, Whether the job (a script or a query) that backs the report currently has a valid output file.
provideAPIKey	boolean, Whether the report requests an API Key from the report viewer.

apiKey	string, A Civis API key that can be used by this report.
apiKeyId	integer, The ID of the API key. Can be used for auditing API use by this report.
appState	list, Any application state blob for this report.
useViewersTableauUsername	boolean, Apply user level filtering on Tableau reports.

---

reports\_patch\_services

*Update some attributes of this service report*

---

### Description

Update some attributes of this service report

### Usage

reports\_patch\_services(id, name = NULL, provide\_api\_key = NULL)

### Arguments

id	integer required. The ID of this report.
name	string optional. The name of the service report.
provide_api_key	boolean optional. Whether the report requests an API Key from the report viewer.

### Value

A list containing the following elements:

id	integer, The ID of this report.
name	string, The name of the report.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
createdAt	string,
updatedAt	string,
host	string, The host for the service report
displayUrl	string, The URL to display the service report.
serviceId	integer, The id of the backing service
provideAPIKey	boolean, Whether the report requests an API Key from the report viewer.
apiKey	string, A Civis API key that can be used by this report.
apiKeyId	integer, The ID of the API key. Can be used for auditing API use by this report.

---

reports_post	<i>Create a report</i>
--------------	------------------------

---

**Description**

Create a report

**Usage**

```
reports_post(
  script_id = NULL,
  name = NULL,
  code_body = NULL,
  app_state = NULL,
  provide_api_key = NULL,
  template_id = NULL,
  hidden = NULL
)
```

**Arguments**

script_id	integer optional. The ID of the job (a script or a query) used to create this report.
name	string optional. The name of the report.
code_body	string optional. The code for the report visualization.
app_state	list optional. Any application state blob for this report.
provide_api_key	boolean optional. Allow the report to provide an API key to front-end code.
template_id	integer optional. The ID of the template used for this report.
hidden	boolean optional. The hidden status of the item.

**Value**

A list containing the following elements:

id	integer, The ID of this report.
name	string, The name of the report.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
createdAt	string,
updatedAt	string,

projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
state	string, The status of the report's last run.
finishedAt	string, The time that the report's last run finished.
vizUpdatedAt	string, The time that the report's visualization was last updated.
script	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID for the script.</li> <li>• name string, The name of the script.</li> <li>• sql string, The raw SQL query for the script.</li> </ul>
jobPath	string, The link to details of the job that backs this report.
tableauId	integer,
type	string,
templateId	integer, The ID of the template used for this report.
authThumbnailUrl	string, URL for a thumbnail of the report.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.
authDataUrl	string,
authCodeUrl	string,
config	string, Any configuration metadata for this report.
validOutputFile	boolean, Whether the job (a script or a query) that backs the report currently has a valid output file.
provideAPIKey	boolean, Whether the report requests an API Key from the report viewer.
apiKey	string, A Civis API key that can be used by this report.
apiKeyId	integer, The ID of the API key. Can be used for auditing API use by this report.
appState	list, Any application state blob for this report.
useViewersTableauUsername	boolean, Apply user level filtering on Tableau reports.



---

 reports\_post\_git\_commits

*Commit and push a new version of the file*


---

### Description

Commit and push a new version of the file

### Usage

```
reports_post_git_commits(id, content, message, file_hash)
```

### Arguments

id	integer required. The ID of the file.
content	string required. The contents to commit to the file.
message	string required. A commit message describing the changes being made.
file_hash	string required. The full SHA of the file being replaced.

### Value

A list containing the following elements:

content	string, The file's contents.
type	string, The file's type.
size	integer, The file's size.
fileHash	string, The SHA of the file.

---

 reports\_post\_grants *Grant this report the ability to perform Civis platform API operations on your behalf*


---

### Description

Grant this report the ability to perform Civis platform API operations on your behalf

### Usage

```
reports_post_grants(id)
```

### Arguments

id	integer required. The ID of this report.
----	--

**Value**

A list containing the following elements:

id	integer, The ID of this report.
name	string, The name of the report.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
createdAt	string,
updatedAt	string,
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
state	string, The status of the report's last run.
finishedAt	string, The time that the report's last run finished.
vizUpdatedAt	string, The time that the report's visualization was last updated.
script	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID for the script.</li> <li>• name string, The name of the script.</li> <li>• sql string, The raw SQL query for the script.</li> </ul>
jobPath	string, The link to details of the job that backs this report.
tableauId	integer,
type	string,
templateId	integer, The ID of the template used for this report.
authThumbnailUrl	string, URL for a thumbnail of the report.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.
authDataUrl	string,

authCodeUrl	string,
config	string, Any configuration metadata for this report.
validOutputFile	boolean, Whether the job (a script or a query) that backs the report currently has a valid output file.
provideAPIKey	boolean, Whether the report requests an API Key from the report viewer.
apiKey	string, A Civis API key that can be used by this report.
apiKeyId	integer, The ID of the API key. Can be used for auditing API use by this report.
appState	list, Any application state blob for this report.
useViewersTableauUsername	boolean, Apply user level filtering on Tableau reports.

---

reports\_post\_refresh *Refresh the data in this Tableau report*

---

### Description

Refresh the data in this Tableau report

### Usage

reports\_post\_refresh(id)

### Arguments

id integer required. The ID of this report.

### Value

A list containing the following elements:

id	integer, The ID of this report.
organization	list, A list containing the following elements: <ul style="list-style-type: none"> <li>id integer, The ID of this organization.</li> <li>tableauRefreshUsage integer, The number of tableau refreshes used this month.</li> <li>tableauRefreshLimit integer, The number of monthly tableau refreshes permitted to this organization.</li> <li>tableauRefreshHistory array, The number of tableau refreshes used this month.</li> </ul>

---

 reports\_post\_services *Create a service report*


---

### Description

Create a service report

### Usage

```
reports_post_services(service_id, provide_api_key = NULL)
```

### Arguments

service_id	integer required. The id of the backing service
provide_api_key	boolean optional. Whether the report requests an API Key from the report viewer.

### Value

A list containing the following elements:

id	integer, The ID of this report.
name	string, The name of the report.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
createdAt	string,
updatedAt	string,
host	string, The host for the service report
displayUrl	string, The URL to display the service report.
serviceId	integer, The id of the backing service
provideAPIKey	boolean, Whether the report requests an API Key from the report viewer.
apiKey	string, A Civis API key that can be used by this report.
apiKeyId	integer, The ID of the API key. Can be used for auditing API use by this report.

---

 reports\_put\_archive     *Update the archive status of this object*


---

**Description**

Update the archive status of this object

**Usage**

```
reports_put_archive(id, status)
```

**Arguments**

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

id	integer, The ID of this report.
name	string, The name of the report.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
createdAt	string,
updatedAt	string,
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
state	string, The status of the report's last run.
finishedAt	string, The time that the report's last run finished.
vizUpdatedAt	string, The time that the report's visualization was last updated.
script	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID for the script.</li> <li>• name string, The name of the script.</li> <li>• sql string, The raw SQL query for the script.</li> </ul>
jobPath	string, The link to details of the job that backs this report.
tableauId	integer,

type	string,
templateId	integer, The ID of the template used for this report.
authThumbnailUrl	string, URL for a thumbnail of the report.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.
authDataUrl	string,
authCodeUrl	string,
config	string, Any configuration metadata for this report.
validOutputFile	boolean, Whether the job (a script or a query) that backs the report currently has a valid output file.
provideAPIKey	boolean, Whether the report requests an API Key from the report viewer.
apiKey	string, A Civic API key that can be used by this report.
apiKeyId	integer, The ID of the API key. Can be used for auditing API use by this report.
appState	list, Any application state blob for this report.
useViewersTableauUsername	boolean, Apply user level filtering on Tableau reports.

---

reports\_put\_git      *Attach an item to a file in a git repo*

---

### Description

Attach an item to a file in a git repo

### Usage

```
reports_put_git(
  id,
  git_ref = NULL,
  git_branch = NULL,
  git_path = NULL,
  git_repo_url = NULL,
  pull_from_git = NULL
)
```

**Arguments**

id	integer required. The ID of the file.
git_ref	string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
git_branch	string optional. The git branch that the file is on.
git_path	string optional. The path of the file in the repository.
git_repo_url	string optional. The URL of the git repository.
pull_from_git	boolean optional. Automatically pull latest commit from git. Only works for scripts.

**Value**

A list containing the following elements:

gitRef	string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
gitBranch	string, The git branch that the file is on.
gitPath	string, The path of the file in the repository.
gitRepo	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID for this git repository.</li> <li>• repoUrl string, The URL for this git repository.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> </ul>
pullFromGit	boolean, Automatically pull latest commit from git. Only works for scripts.

---

reports\_put\_projects *Add a Report to a project*

---

**Description**

Add a Report to a project

**Usage**

```
reports_put_projects(id, project_id)
```

**Arguments**

id	integer required. The ID of the Report.
project_id	integer required. The ID of the project.

**Value**

An empty HTTP response

---

reports\_put\_services\_projects

*Add a Service Report to a project*

---

### **Description**

Add a Service Report to a project

### **Usage**

```
reports_put_services_projects(id, project_id)
```

### **Arguments**

id	integer required. The ID of the Service Report.
project_id	integer required. The ID of the project.

### **Value**

An empty HTTP response

---

reports\_put\_services\_shares\_groups

*Set the permissions groups has on this object*

---

### **Description**

Set the permissions groups has on this object

### **Usage**

```
reports_put_services_shares_groups(  
  id,  
  group_ids,  
  permission_level,  
  share_email_body = NULL,  
  send_shared_email = NULL  
)
```



**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

reports\_put\_services\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
reports_put_services_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

reports\_put\_shares\_groups

*Set the permissions groups has on this object*

---

**Description**

Set the permissions groups has on this object

**Usage**

```
reports_put_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

reports\_put\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
reports_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

run\_civis

*Evaluate an R expression in a Civis Platform container*


---

**Description**

Evaluate an R expression in a Civis Platform container

**Usage**

```
run_civis(expr, ...)
```

**Arguments**

expr	code to evaluate
...	arguments to <a href="#">CivisFuture</a>

**Details**

run\_civis blocks until completion. For non-blocking calls, use futures directly with [civis\\_platform](#). Attempts are made at detecting and installing necessary packages within the container, and detecting global variables required in expr.

**See Also**

Other script\_utils: [civis\\_script\(\)](#), [fetch\\_output\\_file\\_ids\(\)](#), [run\\_template\(\)](#)

**Examples**

```
## Not run:
run_civis(2+2)

# specify required resources, and a specific image
run_civis(2+2,
  required_resources = list(cpu = 1024, memory = 2048),
  docker_image_name='image',
  docker_image_tag = 'latest')

## End(Not run)
```

---

run_template	<i>Run a template script</i>
--------------	------------------------------

---

**Description**

Run a template script

**Usage**

```
run_template(id, arguments, JSONValue = FALSE, ...)
```

**Arguments**

id	id of the template script.
arguments	list of arguments to the script.
JSONValue	bool (default FALSE) If true, returns the JSON values instead of the file_ids
...	additional arguments to scripts_post_custom

**Value**

If JSONValue is FALSE, File ids of any run outputs are returned. If JSONValue is TRUE, JSON values of first JSON run output is returned. If there are no JSON outputs, warning message is printed and nothing is returned. If there are more than 1 JSON outputs, warning message is printed and the first JSON output is returned.

**See Also**

Other script\_utils: [civis\\_script\(\)](#), [fetch\\_output\\_file\\_ids\(\)](#), [run\\_civis\(\)](#)

**Examples**

```
## Not run:
# Try a search for the template id
search_list('template name', type = 'template_script')

# Run the template
run_template(id, arguments = list(arg1 = 1, arg2 = 2), ...)

# Run the template and return JSON value outputs
run_template(id, arguments = list(arg1 = 1, arg2 = 2), JSONValue=TRUE, ...)

## End(Not run)
```

---

saml\_service\_providers\_delete\_shares\_groups

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
saml_service_providers_delete_shares_groups(id, group_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

saml\_service\_providers\_delete\_shares\_users  
*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

saml\_service\_providers\_delete\_shares\_users(id, user\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

saml\_service\_providers\_list\_shares  
*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

saml\_service\_providers\_list\_shares(id)

**Arguments**

id	integer required. The ID of the resource that is shared.
----	--

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"><li>• users array,</li><li>• groups array,</li></ul>
writers	list, A list containing the following elements:

	<ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

saml\_service\_providers\_put\_shares\_groups

*Set the permissions groups has on this object*

---

## Description

Set the permissions groups has on this object

## Usage

```
saml_service_providers_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

## Arguments

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.



**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

saml\_service\_providers\_put\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
saml_service_providers_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts_delete	<i>Archive a script (deprecated, use archive endpoints instead)</i>
----------------	---

---

**Description**

Archive a script (deprecated, use archive endpoints instead)

**Usage**

```
scripts_delete(id)
```

**Arguments**

id	integer required. The ID for the script.
----	--

**Value**

An empty HTTP response

---

`scripts_delete_containers`*Archive a container (deprecated, use archive endpoints)*

---

**Description**

Archive a container (deprecated, use archive endpoints)

**Usage**

```
scripts_delete_containers(id)
```

**Arguments**

`id` integer required. The ID for the script.

**Value**

An empty HTTP response

---

`scripts_delete_containers_projects`*Remove a Container Script from a project*

---

**Description**

Remove a Container Script from a project

**Usage**

```
scripts_delete_containers_projects(id, project_id)
```

**Arguments**

`id` integer required. The ID of the Container Script.

`project_id` integer required. The ID of the project.

**Value**

An empty HTTP response

---

scripts\_delete\_containers\_runs  
*Cancel a run*

---

**Description**

Cancel a run

**Usage**

scripts\_delete\_containers\_runs(id, run\_id)

**Arguments**

id                   integer required. The ID of the container.  
run\_id               integer required. The ID of the run.

**Value**

An empty HTTP response

---

scripts\_delete\_containers\_shares\_groups  
*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

scripts\_delete\_containers\_shares\_groups(id, group\_id)

**Arguments**

id                   integer required. The ID of the resource that is shared.  
group\_id             integer required. The ID of the group.

**Value**

An empty HTTP response

---

`scripts_delete_containers_shares_users`*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
scripts_delete_containers_shares_users(id, user_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>user_id</code>	integer required. The ID of the user.

**Value**

An empty HTTP response

---

`scripts_delete_custom` *Archive a Custom Script (deprecated, use archiving endpoints instead)*

---

**Description**

Archive a Custom Script (deprecated, use archiving endpoints instead)

**Usage**

```
scripts_delete_custom(id)
```

**Arguments**

<code>id</code>	integer required.
-----------------	-------------------

**Value**

An empty HTTP response

---

scripts\_delete\_custom\_projects

*Remove a Custom Script from a project*

---

**Description**

Remove a Custom Script from a project

**Usage**

scripts\_delete\_custom\_projects(id, project\_id)

**Arguments**

id                   integer required. The ID of the Custom Script.  
project\_id         integer required. The ID of the project.

**Value**

An empty HTTP response

---

scripts\_delete\_custom\_runs

*Cancel a run*

---

**Description**

Cancel a run

**Usage**

scripts\_delete\_custom\_runs(id, run\_id)

**Arguments**

id                   integer required. The ID of the custom.  
run\_id             integer required. The ID of the run.

**Value**

An empty HTTP response

---

`scripts_delete_custom_shares_groups`*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
scripts_delete_custom_shares_groups(id, group_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>group_id</code>	integer required. The ID of the group.

**Value**

An empty HTTP response

---

`scripts_delete_custom_shares_users`*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
scripts_delete_custom_shares_users(id, user_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>user_id</code>	integer required. The ID of the user.

**Value**

An empty HTTP response

scripts\_delete\_javascript

*Archive a JavaScript Script (deprecated, use archiving endpoints instead)*

---

**Description**

Archive a JavaScript Script (deprecated, use archiving endpoints instead)

**Usage**

scripts\_delete\_javascript(id)

**Arguments**

id                    integer required.

**Value**

An empty HTTP response

---

scripts\_delete\_javascript\_projects

*Remove a JavaScript Script from a project*

---

**Description**

Remove a JavaScript Script from a project

**Usage**

scripts\_delete\_javascript\_projects(id, project\_id)

**Arguments**

id                    integer required. The ID of the JavaScript Script.  
project\_id           integer required. The ID of the project.

**Value**

An empty HTTP response



---

scripts\_delete\_javascript\_runs  
*Cancel a run*

---

**Description**

Cancel a run

**Usage**

```
scripts_delete_javascript_runs(id, run_id)
```

**Arguments**

id	integer required. The ID of the javascript.
run_id	integer required. The ID of the run.

**Value**

An empty HTTP response

---

scripts\_delete\_javascript\_shares\_groups  
*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
scripts_delete_javascript_shares_groups(id, group_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

scripts\_delete\_javascript\_shares\_users

*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
scripts_delete_javascript_shares_users(id, user_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

scripts\_delete\_python3

*Archive a Python Script (deprecated, use archiving endpoints instead)*

---

**Description**

Archive a Python Script (deprecated, use archiving endpoints instead)

**Usage**

```
scripts_delete_python3(id)
```

**Arguments**

id	integer required.
----	-------------------

**Value**

An empty HTTP response

---

scripts\_delete\_python3\_projects  
*Remove a Python Script from a project*

---

**Description**

Remove a Python Script from a project

**Usage**

```
scripts_delete_python3_projects(id, project_id)
```

**Arguments**

id	integer required. The ID of the Python Script.
project_id	integer required. The ID of the project.

**Value**

An empty HTTP response

---

scripts\_delete\_python3\_runs  
*Cancel a run*

---

**Description**

Cancel a run

**Usage**

```
scripts_delete_python3_runs(id, run_id)
```

**Arguments**

id	integer required. The ID of the python.
run_id	integer required. The ID of the run.

**Value**

An empty HTTP response

---

scripts\_delete\_python3\_shares\_groups

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

scripts\_delete\_python3\_shares\_groups(id, group\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

scripts\_delete\_python3\_shares\_users

*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

scripts\_delete\_python3\_shares\_users(id, user\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

scripts\_delete\_r      *Archive an R Script (deprecated, use archiving endpoints instead)*

---

**Description**

Archive an R Script (deprecated, use archiving endpoints instead)

**Usage**

```
scripts_delete_r(id)
```

**Arguments**

id                    integer required.

**Value**

An empty HTTP response

---

scripts\_delete\_r\_projects  
*Remove an R Script from a project*

---

**Description**

Remove an R Script from a project

**Usage**

```
scripts_delete_r_projects(id, project_id)
```

**Arguments**

id                    integer required. The ID of the R Script.  
project\_id           integer required. The ID of the project.

**Value**

An empty HTTP response

---

scripts\_delete\_r\_runs *Cancel a run*

---

**Description**

Cancel a run

**Usage**

scripts\_delete\_r\_runs(id, run\_id)

**Arguments**

id	integer required. The ID of the r.
run_id	integer required. The ID of the run.

**Value**

An empty HTTP response

---

scripts\_delete\_r\_shares\_groups  
*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

scripts\_delete\_r\_shares\_groups(id, group\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

`scripts_delete_r_shares_users`*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
scripts_delete_r_shares_users(id, user_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>user_id</code>	integer required. The ID of the user.

**Value**

An empty HTTP response

---

`scripts_delete_sql`     *Archive a SQL script (deprecated, use archiving endpoints instead)*

---

**Description**

Archive a SQL script (deprecated, use archiving endpoints instead)

**Usage**

```
scripts_delete_sql(id)
```

**Arguments**

<code>id</code>	integer required.
-----------------	-------------------

**Value**

An empty HTTP response

---

scripts\_delete\_sql\_projects

*Remove a SQL script from a project*

---

**Description**

Remove a SQL script from a project

**Usage**

scripts\_delete\_sql\_projects(id, project\_id)

**Arguments**

id	integer required. The ID of the SQL script.
project_id	integer required. The ID of the project.

**Value**

An empty HTTP response

---

scripts\_delete\_sql\_runs

*Cancel a run*

---

**Description**

Cancel a run

**Usage**

scripts\_delete\_sql\_runs(id, run\_id)

**Arguments**

id	integer required. The ID of the sql.
run_id	integer required. The ID of the run.

**Value**

An empty HTTP response



---

`scripts_delete_sql_shares_groups`*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
scripts_delete_sql_shares_groups(id, group_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>group_id</code>	integer required. The ID of the group.

**Value**

An empty HTTP response

---

`scripts_delete_sql_shares_users`*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
scripts_delete_sql_shares_users(id, user_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>user_id</code>	integer required. The ID of the user.

**Value**

An empty HTTP response

---

 scripts\_get

*Get details about a script*


---

**Description**

Get details about a script

**Usage**

```
scripts_get(id)
```

**Arguments**

id integer required. The ID for the script.

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of script.
createdAt	string, The time this script was created.
updatedAt	string, The time this script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> </ul>

- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi\_line\_string, integer, float, bool, file, table, database, credential\_aws, credential\_redshift, or credential\_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''

arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> </ul>

	<ul style="list-style-type: none"> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
sql	string, The raw SQL query for the script.
expandedArguments	list, Expanded arguments for use in injecting into different environments.
templateScriptId	integer, The ID of the template script, if any.

---

`scripts_get_containers`*View a container*

---

**Description**

View a container

**Usage**`scripts_get_containers(id)`**Arguments**

<code>id</code>	integer required. The ID for the script.
-----------------	--

**Value**

A list containing the following elements:

<code>id</code>	integer, The ID for the script.
<code>name</code>	string, The name of the container.
<code>type</code>	string, The type of the script (e.g Container)
<code>createdAt</code>	string, The time this script was created.
<code>updatedAt</code>	string, The time the script was last updated.
<code>author</code>	list, A list containing the following elements: <ul style="list-style-type: none"><li>• <code>id</code> integer, The ID of this user.</li><li>• <code>name</code> string, This user's name.</li><li>• <code>username</code> string, This user's username.</li><li>• <code>initials</code> string, This user's initials.</li><li>• <code>online</code> boolean, Whether this user is online.</li></ul>
<code>state</code>	string, The status of the script's last run.
<code>finishedAt</code>	string, The time that the script's last run finished.
<code>category</code>	string, The category of the script.
<code>projects</code>	array, An array containing the following fields: <ul style="list-style-type: none"><li>• <code>id</code> integer, The ID for the project.</li><li>• <code>name</code> string, The name of the project.</li></ul>
<code>parentId</code>	integer, The ID of the parent job that will trigger this script
<code>userContext</code>	string, "runner" or "author", who to execute the script as when run as a template.
<code>params</code>	array, An array containing the following fields: <ul style="list-style-type: none"><li>• <code>name</code> string, The variable's name as used within your code.</li><li>• <code>label</code> string, The label to present to users when asking them for the value.</li></ul>

- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi\_line\_string, integer, float, bool, file, table, database, credential\_aws, credential\_redshift, or credential\_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

templateDependentsCount integer, How many other scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template script.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:

- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:

- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.

	<ul style="list-style-type: none"> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
requiredResources	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.</li> <li>• memory integer, The amount of RAM to allocate for the container (in MB).</li> <li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li> </ul>
repoHttpUri	string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.
repoRef	string, The tag or branch of the github repo to clone into the container.
remoteHostCredentialId	integer, The id of the database credentials to pass into the environment of the container.
gitCredentialId	integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you've submitted will be used. Unnecessary if no git repo is specified or the git repo is public.
dockerCommand	string, The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image's ENTRYPOINT/CMD.
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
timeZone	string, The time zone of this script.
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
targetProjectId	integer, Target project to which script outputs will be added.

---

scripts\_get\_containers\_runs  
*Check status of a run*

---

### Description

Check status of a run

### Usage

```
scripts_get_containers_runs(id, run_id)
```

### Arguments

id	integer required. The ID of the container.
run_id	integer required. The ID of the run.

### Value

A list containing the following elements:

id	integer, The ID of the run.
containerId	integer, The ID of the container.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.



---

 scripts\_get\_custom      *Get a Custom Script*


---

**Description**

Get a Custom Script

**Usage**

```
scripts_get_custom(id)
```

**Arguments**

id                      integer required.

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g Custom)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string,
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> </ul>

- type string, The type of parameter. Valid options: string, multi\_line\_string, integer, float, bool, file, table, database, credential\_aws, credential\_redshift, or credential\_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'

arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template script.
uiReportUrl	integer, The url of the custom HTML.
uiReportId	integer, The id of the report with the custom HTML.
uiReportProvideAPIKey	boolean, Whether the ui report requests an API Key from the report viewer.
templateScriptName	string, The name of the template script.
templateNote	string, The template's note.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.
codePreview	string, The code that this script will run with arguments inserted.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> </ul>

	<ul style="list-style-type: none"> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
timeZone	string, The time zone of this script.
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
targetProjectId	integer, Target project to which script outputs will be added.
lastSuccessfulRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>

scripts\_get\_custom\_runs

*Check status of a run*

---

### **Description**

Check status of a run

### **Usage**

```
scripts_get_custom_runs(id, run_id)
```

### **Arguments**

id	integer required. The ID of the custom.
run_id	integer required. The ID of the run.

### **Value**

A list containing the following elements:

id	integer, The ID of the run.
customId	integer, The ID of the custom.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

scripts\_get\_javascript

*Get a JavaScript Script*

---

### **Description**

Get a JavaScript Script

### **Usage**

```
scripts_get_javascript(id)
```

**Arguments**

id integer required.

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> </ul>

	<ul style="list-style-type: none"> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> </ul>

	<ul style="list-style-type: none"> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
source	string, The body/text of the script.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.

---

scripts\_get\_javascript\_git\_commits

*Get file contents at commit\_hash*

---

## Description

Get file contents at commit\_hash

## Usage

```
scripts_get_javascript_git_commits(id, commit_hash)
```

## Arguments

id	integer required. The ID of the file.
commit_hash	string required. The SHA (full or shortened) of the desired git commit.

## Value

A list containing the following elements:

content	string, The file's contents.
type	string, The file's type.
size	integer, The file's size.
fileHash	string, The SHA of the file.

---

scripts\_get\_javascript\_runs  
*Check status of a run*

---

**Description**

Check status of a run

**Usage**

```
scripts_get_javascript_runs(id, run_id)
```

**Arguments**

id	integer required. The ID of the javascript.
run_id	integer required. The ID of the run.

**Value**

A list containing the following elements:

id	integer, The ID of the run.
javascriptId	integer, The ID of the javascript.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

scripts\_get\_python3 *Get a Python Script*

---

**Description**

Get a Python Script

**Usage**

```
scripts_get_python3(id)
```

**Arguments**

id	integer required.
----	-------------------



**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"><li>• details string, The details link to get more information about the script.</li><li>• runs string, The runs link to get the run information list for this script.</li></ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"><li>• scheduled boolean, If the item is scheduled.</li><li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li><li>• scheduledHours array, Hours of the day it is scheduled on.</li><li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li><li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li></ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"><li>• urls array, URLs to receive a POST request at job completion</li><li>• successEmailSubject string, Custom subject line for success e-mail.</li><li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li><li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li><li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li><li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li><li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li><li>• successOn boolean, If success email notifications are on.</li><li>• failureOn boolean, If failure email notifications are on.</li></ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
nextRunAt	string, The time of the next scheduled run.

timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
requiredResources	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</li> <li>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</li> <li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li> </ul>
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source	string, The body/text of the script.
cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.

---

scripts\_get\_python3\_git\_commits

*Get file contents at commit\_hash*

---

## Description

Get file contents at commit\_hash

## Usage

scripts\_get\_python3\_git\_commits(id, commit\_hash)

**Arguments**

id	integer required. The ID of the file.
commit_hash	string required. The SHA (full or shortened) of the desired git commit.

**Value**

A list containing the following elements:

content	string, The file's contents.
type	string, The file's type.
size	integer, The file's size.
fileHash	string, The SHA of the file.

---

scripts\_get\_python3\_runs

*Check status of a run*

---

**Description**

Check status of a run

**Usage**

```
scripts_get_python3_runs(id, run_id)
```

**Arguments**

id	integer required. The ID of the python.
run_id	integer required. The ID of the run.

**Value**

A list containing the following elements:

id	integer, The ID of the run.
pythonId	integer, The ID of the python.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

scripts_get_r	<i>Get an R Script</i>
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---

**Description**

Get an R Script

**Usage**

```
scripts_get_r(id)
```

**Arguments**

id integer required.

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> </ul>

- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi\_line\_string, integer, float, bool, file, table, database, credential\_aws, credential\_redshift, or credential\_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''

arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> </ul>

	<ul style="list-style-type: none"> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
requiredResources	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</li> <li>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</li> <li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li> </ul>
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source	string, The body/text of the script.

cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

dockerImageTag string, The tag of the docker image to pull from DockerHub.

---

scripts\_get\_r\_git\_commits

*Get file contents at commit\_hash*

---

### Description

Get file contents at commit\_hash

### Usage

scripts\_get\_r\_git\_commits(id, commit\_hash)

### Arguments

id integer required. The ID of the file.

commit\_hash string required. The SHA (full or shortened) of the desired git commit.

### Value

A list containing the following elements:

content string, The file's contents.

type string, The file's type.

size integer, The file's size.

fileHash string, The SHA of the file.

---

scripts\_get\_r\_runs *Check status of a run*

---

### Description

Check status of a run

### Usage

scripts\_get\_r\_runs(id, run\_id)

### Arguments

id integer required. The ID of the r.

run\_id integer required. The ID of the run.



**Value**

A list containing the following elements:

id	integer, The ID of the run.
rId	integer, The ID of the r.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

scripts_get_sql	<i>Get a SQL script</i>
-----------------	-------------------------

---

**Description**

Get a SQL script

**Usage**

```
scripts_get_sql(id)
```

**Arguments**

id	integer required.
----	-------------------

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>

state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> </ul>

	<ul style="list-style-type: none"> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
sql	string, The raw SQL query for the script.

expandedArguments	list, Expanded arguments for use in injecting into different environments.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.
codePreview	string, The code that this script will run with arguments inserted.
csvSettings	list, A list containing the following elements: <ul style="list-style-type: none"> <li>includeHeader boolean, Whether or not to include headers in the output data. Default: true</li> <li>compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip</li> <li>columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma</li> <li>unquoted boolean, Whether or not to quote fields. Default: false</li> <li>forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false</li> <li>filenamePrefix string, A user specified filename prefix for the output file to have. Default: null</li> <li>maxFileSize integer, The max file size, in MB, created files will be. Only available when force_multifile is true.</li> </ul>

---

scripts\_get\_sql\_git\_commits

*Get file contents at commit\_hash*

---

## Description

Get file contents at commit\_hash

## Usage

```
scripts_get_sql_git_commits(id, commit_hash)
```

## Arguments

id	integer required. The ID of the file.
commit_hash	string required. The SHA (full or shortened) of the desired git commit.

## Value

A list containing the following elements:

content	string, The file's contents.
type	string, The file's type.
size	integer, The file's size.
fileHash	string, The SHA of the file.

---

scripts\_get\_sql\_runs *Check status of a run*

---

## Description

Check status of a run

## Usage

```
scripts_get_sql_runs(id, run_id)
```

## Arguments

id	integer required. The ID of the sql.
run_id	integer required. The ID of the run.

## Value

A list containing the following elements:

id	integer, The ID of this run.
sqlId	integer, The ID of this sql.
state	string, The state of this run.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started.
finishedAt	string, The time that this run finished.
error	string, The error message for this run, if present.
output	array, An array containing the following fields: <ul style="list-style-type: none"><li>• outputName string, The name of the output file.</li><li>• fileId integer, The unique ID of the output file.</li><li>• path string, The temporary link to download this output file, valid for 36 hours.</li></ul>

---

 scripts\_list
 

---

*List Scripts***Description**

List Scripts

**Usage**

```
scripts_list(
    type = NULL,
    category = NULL,
    author = NULL,
    status = NULL,
    hidden = NULL,
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

type	string optional. If specified, return items of these types. The valid types are sql, python3, javascript, r, and containers.
category	string optional. A job category for filtering scripts. Must be one of script, import, export, and enhancement.
author	string optional. If specified, return items from this author. Must use user IDs. A comma separated list of IDs is also accepted to return items from multiple authors.
status	string optional. If specified, returns items with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
archived	string optional. The archival status of the requested item(s).
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at, last_run.updated_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
isTemplate	boolean, Whether others scripts use this one as a template.
fromTemplateId	integer, The ID of the template this script uses, if any.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
archived	string, The archival status of the requested item(s).
templateScriptId	integer, The ID of the template script, if any.

---

 scripts\_list\_containers\_projects

*List the projects a Container Script belongs to*


---

### Description

List the projects a Container Script belongs to

### Usage

```
scripts_list_containers_projects(id, hidden = NULL)
```

### Arguments

id	integer required. The ID of the Container Script.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

### Value

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).



---

 scripts\_list\_containers\_runs

*List runs for the given container*


---

## Description

List runs for the given container

## Usage

```
scripts_list_containers_runs(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

## Arguments

id	integer required. The ID of the container.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

## Value

An array containing the following fields:

id	integer, The ID of the run.
containerId	integer, The ID of the container.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

scripts\_list\_containers\_runs\_logs  
*Get the logs for a run*

---

**Description**

Get the logs for a run

**Usage**

```
scripts_list_containers_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

id	integer required. The ID of the container.
run_id	integer required. The ID of the run.
last_id	integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit	integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

id	integer, The ID of the log.
createdAt	string, The time the log was created.
message	string, The log message.
level	string, The level of the log. One of unknown,fatal,error,warn,info,debug.

---

scripts\_list\_containers\_runs\_outputs  
*List the outputs for a run*

---

**Description**

List the outputs for a run

**Usage**

```
scripts_list_containers_runs_outputs(
  id,
  run_id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

id	integer required. The ID of the container script.
run_id	integer required. The ID of the run.
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

objectType	string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId	integer, The ID of the output.
name	string, The name of the output.
link	string, The hypermedia link to the output.
value	string,

---

scripts\_list\_containers\_shares

*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

```
scripts_list_containers_shares(id)
```

**Arguments**

id integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts\_list\_custom *List Custom Scripts*

---

**Description**

List Custom Scripts

**Usage**

```
scripts_list_custom(
  from_template_id = NULL,
  author = NULL,
  status = NULL,
  hidden = NULL,
  archived = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

from_template_id	string optional. If specified, return scripts based on the template with this ID. Specify multiple IDs as a comma-separated list.
author	string optional. If specified, return items from this author. Must use user IDs. A comma separated list of IDs is also accepted to return items from multiple authors.
status	string optional. If specified, returns items with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
archived	string optional. The archival status of the requested item(s).
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

**Value**

An array containing the following fields:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g Custom)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script

fromTemplateId	integer, The ID of the template script.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
archived	string, The archival status of the requested item(s).
lastSuccessfulRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>

---

scripts\_list\_custom\_projects

*List the projects a Custom Script belongs to*

---

## Description

List the projects a Custom Script belongs to

## Usage

```
scripts_list_custom_projects(id, hidden = NULL)
```

## Arguments

id	integer required. The ID of the Custom Script.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

scripts\_list\_custom\_runs

*List runs for the given custom*

---

**Description**

List runs for the given custom

**Usage**

```
scripts_list_custom_runs(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

id	integer required. The ID of the custom.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The ID of the run.
customId	integer, The ID of the custom.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

scripts\_list\_custom\_runs\_logs

*Get the logs for a run*

---

**Description**

Get the logs for a run

**Usage**

```
scripts_list_custom_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

id	integer required. The ID of the custom.
run_id	integer required. The ID of the run.
last_id	integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit	integer optional. The maximum number of log messages to return. Default of 10000.



**Value**

An array containing the following fields:

id	integer, The ID of the log.
createdAt	string, The time the log was created.
message	string, The log message.
level	string, The level of the log. One of unknown,fatal,error,warn,info,debug.

---

scripts\_list\_custom\_runs\_outputs  
*List the outputs for a run*

---

**Description**

List the outputs for a run

**Usage**

```
scripts_list_custom_runs_outputs(
  id,
  run_id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

id	integer required. The ID of the custom script.
run_id	integer required. The ID of the run.
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

objectType	string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId	integer, The ID of the output.
name	string, The name of the output.
link	string, The hypermedia link to the output.
value	string,

---

scripts\_list\_custom\_shares

*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

scripts\_list\_custom\_shares(id)

**Arguments**

id	integer required. The ID of the resource that is shared.
----	--

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts\_list\_history *Get the run history and outputs of this script*

---

**Description**

Get the run history and outputs of this script

**Usage**

scripts\_list\_history(id)

**Arguments**

id integer required. The ID for the script.

**Value**

A list containing the following elements:

id	integer, The ID of this run.
sqlId	integer, The ID of this sql.
state	string, The state of this run.
isCancelRequested	boolean, True if run cancel requested, else false.
finishedAt	string, The time that this run finished.
error	string, The error message for this run, if present.
output	array, An array containing the following fields: <ul style="list-style-type: none"><li>• outputName string, The name of the output file.</li><li>• fileId integer, The unique ID of the output file.</li><li>• path string, The temporary link to download this output file, valid for 36 hours.</li></ul>

---

scripts\_list\_javascript\_git  
*Get the git metadata attached to an item*

---

**Description**

Get the git metadata attached to an item

**Usage**

scripts\_list\_javascript\_git(id)

**Arguments**

`id` integer required. The ID of the file.

**Value**

A list containing the following elements:

<code>gitRef</code>	string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
<code>gitBranch</code>	string, The git branch that the file is on.
<code>gitPath</code>	string, The path of the file in the repository.
<code>gitRepo</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• <code>id</code> integer, The ID for this git repository.</li> <li>• <code>repoUrl</code> string, The URL for this git repository.</li> <li>• <code>createdAt</code> string,</li> <li>• <code>updatedAt</code> string,</li> </ul>
<code>pullFromGit</code>	boolean, Automatically pull latest commit from git. Only works for scripts.

---

`scripts_list_javascript_git_commits`

*Get the git commits for an item*

---

**Description**

Get the git commits for an item

**Usage**

`scripts_list_javascript_git_commits(id)`

**Arguments**

`id` integer required. The ID of the file.

**Value**

A list containing the following elements:

<code>commitHash</code>	string, The SHA of the commit.
<code>authorName</code>	string, The name of the commit's author.
<code>date</code>	string, The commit's timestamp.
<code>message</code>	string, The commit message.

---

 scripts\_list\_javascript\_projects

*List the projects a JavaScript Script belongs to*


---

### Description

List the projects a JavaScript Script belongs to

### Usage

```
scripts_list_javascript_projects(id, hidden = NULL)
```

### Arguments

id	integer required. The ID of the JavaScript Script.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

### Value

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

 scripts\_list\_javascript\_runs

*List runs for the given javascript*


---

### Description

List runs for the given javascript

### Usage

```
scripts_list_javascript_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

### Arguments

id	integer required. The ID of the javascript.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

### Value

An array containing the following fields:

id	integer, The ID of the run.
javascriptId	integer, The ID of the javascript.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

scripts\_list\_javascript\_runs\_logs  
*Get the logs for a run*

---

**Description**

Get the logs for a run

**Usage**

```
scripts_list_javascript_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

id	integer required. The ID of the javascript.
run_id	integer required. The ID of the run.
last_id	integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit	integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

id	integer, The ID of the log.
createdAt	string, The time the log was created.
message	string, The log message.
level	string, The level of the log. One of unknown,fatal,error,warn,info,debug.

---

scripts\_list\_javascript\_runs\_outputs  
*List the outputs for a run*

---

**Description**

List the outputs for a run

**Usage**

```
scripts_list_javascript_runs_outputs(
    id,
    run_id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

id	integer required. The ID of the javascript script.
run_id	integer required. The ID of the run.
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

objectType	string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId	integer, The ID of the output.
name	string, The name of the output.
link	string, The hypermedia link to the output.
value	string,

---

scripts\_list\_javascript\_shares

*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

```
scripts_list_javascript_shares(id)
```



**Arguments**

`id` integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

`readers` list, A list containing the following elements:

- users array,
- groups array,

`writers` list, A list containing the following elements:

- users array,
- groups array,

`owners` list, A list containing the following elements:

- users array,
- groups array,

`totalUserShares` integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

`totalGroupShares` integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts\_list\_python3\_git

*Get the git metadata attached to an item*

---

**Description**

Get the git metadata attached to an item

**Usage**

scripts\_list\_python3\_git(id)

**Arguments**

`id` integer required. The ID of the file.

**Value**

A list containing the following elements:

gitRef	string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
gitBranch	string, The git branch that the file is on.
gitPath	string, The path of the file in the repository.
gitRepo	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID for this git repository.</li> <li>• repoUrl string, The URL for this git repository.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> </ul>
pullFromGit	boolean, Automatically pull latest commit from git. Only works for scripts.

---

scripts\_list\_python3\_git\_commits

*Get the git commits for an item*

---

**Description**

Get the git commits for an item

**Usage**

```
scripts_list_python3_git_commits(id)
```

**Arguments**

id	integer required. The ID of the file.
----	---------------------------------------

**Value**

A list containing the following elements:

commitHash	string, The SHA of the commit.
authorName	string, The name of the commit's author.
date	string, The commit's timestamp.
message	string, The commit message.

---

 scripts\_list\_python3\_projects

*List the projects a Python Script belongs to*


---

### Description

List the projects a Python Script belongs to

### Usage

```
scripts_list_python3_projects(id, hidden = NULL)
```

### Arguments

id	integer required. The ID of the Python Script.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

### Value

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

 scripts\_list\_python3\_runs

*List runs for the given python*


---

### Description

List runs for the given python

### Usage

```
scripts_list_python3_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

### Arguments

id	integer required. The ID of the python.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

### Value

An array containing the following fields:

id	integer, The ID of the run.
pythonId	integer, The ID of the python.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

`scripts_list_python3_runs_logs`*Get the logs for a run*

---

**Description**

Get the logs for a run

**Usage**

```
scripts_list_python3_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

<code>id</code>	integer required. The ID of the python.
<code>run_id</code>	integer required. The ID of the run.
<code>last_id</code>	integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
<code>limit</code>	integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

<code>id</code>	integer, The ID of the log.
<code>createdAt</code>	string, The time the log was created.
<code>message</code>	string, The log message.
<code>level</code>	string, The level of the log. One of unknown,fatal,error,warn,info,debug.

---

`scripts_list_python3_runs_outputs`*List the outputs for a run*

---

**Description**

List the outputs for a run

**Usage**

```
scripts_list_python3_runs_outputs(
    id,
    run_id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

id	integer required. The ID of the python script.
run_id	integer required. The ID of the run.
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

objectType	string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId	integer, The ID of the output.
name	string, The name of the output.
link	string, The hypermedia link to the output.
value	string,

---

scripts\_list\_python3\_shares

*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

```
scripts_list_python3_shares(id)
```

**Arguments**

`id` integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

`readers` list, A list containing the following elements:

- users array,
- groups array,

`writers` list, A list containing the following elements:

- users array,
- groups array,

`owners` list, A list containing the following elements:

- users array,
- groups array,

`totalUserShares`

integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

`totalGroupShares`

integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

`scripts_list_r_git` *Get the git metadata attached to an item*

---

**Description**

Get the git metadata attached to an item

**Usage**

`scripts_list_r_git(id)`

**Arguments**

`id` integer required. The ID of the file.

**Value**

A list containing the following elements:

gitRef	string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
gitBranch	string, The git branch that the file is on.
gitPath	string, The path of the file in the repository.
gitRepo	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID for this git repository.</li> <li>• repoUrl string, The URL for this git repository.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> </ul>
pullFromGit	boolean, Automatically pull latest commit from git. Only works for scripts.

---

scripts\_list\_r\_git\_commits

*Get the git commits for an item*

---

**Description**

Get the git commits for an item

**Usage**

```
scripts_list_r_git_commits(id)
```

**Arguments**

id	integer required. The ID of the file.
----	---------------------------------------

**Value**

A list containing the following elements:

commitHash	string, The SHA of the commit.
authorName	string, The name of the commit's author.
date	string, The commit's timestamp.
message	string, The commit message.



---

 scripts\_list\_r\_projects

*List the projects an R Script belongs to*


---

**Description**

List the projects an R Script belongs to

**Usage**

```
scripts_list_r_projects(id, hidden = NULL)
```

**Arguments**

id	integer required. The ID of the R Script.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

scripts\_list\_r\_runs    *List runs for the given r*

---

### Description

List runs for the given r

### Usage

```
scripts_list_r_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

### Arguments

id	integer required. The ID of the r.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

### Value

An array containing the following fields:

id	integer, The ID of the run.
rId	integer, The ID of the r.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

 scripts\_list\_r\_runs\_logs

*Get the logs for a run*


---

**Description**

Get the logs for a run

**Usage**

```
scripts_list_r_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

id	integer required. The ID of the r.
run_id	integer required. The ID of the run.
last_id	integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit	integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

id	integer, The ID of the log.
createdAt	string, The time the log was created.
message	string, The log message.
level	string, The level of the log. One of unknown,fatal,error,warn,info,debug.

---

 scripts\_list\_r\_runs\_outputs

*List the outputs for a run*


---

**Description**

List the outputs for a run

**Usage**

```
scripts_list_r_runs_outputs(
  id,
  run_id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

id	integer required. The ID of the r script.
run_id	integer required. The ID of the run.
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

objectType	string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId	integer, The ID of the output.
name	string, The name of the output.
link	string, The hypermedia link to the output.
value	string,

---

scripts\_list\_r\_shares *List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

```
scripts_list_r_shares(id)
```

**Arguments**

`id` integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

`readers` list, A list containing the following elements:

- users array,
- groups array,

`writers` list, A list containing the following elements:

- users array,
- groups array,

`owners` list, A list containing the following elements:

- users array,
- groups array,

`totalUserShares`

integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

`totalGroupShares`

integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

`scripts_list_sql_git` *Get the git metadata attached to an item*

---

**Description**

Get the git metadata attached to an item

**Usage**

```
scripts_list_sql_git(id)
```

**Arguments**

`id` integer required. The ID of the file.

**Value**

A list containing the following elements:

gitRef	string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
gitBranch	string, The git branch that the file is on.
gitPath	string, The path of the file in the repository.
gitRepo	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID for this git repository.</li> <li>• repoUrl string, The URL for this git repository.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> </ul>
pullFromGit	boolean, Automatically pull latest commit from git. Only works for scripts.

---

scripts\_list\_sql\_git\_commits

*Get the git commits for an item*

---

**Description**

Get the git commits for an item

**Usage**

```
scripts_list_sql_git_commits(id)
```

**Arguments**

id	integer required. The ID of the file.
----	---------------------------------------

**Value**

A list containing the following elements:

commitHash	string, The SHA of the commit.
authorName	string, The name of the commit's author.
date	string, The commit's timestamp.
message	string, The commit message.

---

 scripts\_list\_sql\_projects

*List the projects a SQL script belongs to*


---

**Description**

List the projects a SQL script belongs to

**Usage**

```
scripts_list_sql_projects(id, hidden = NULL)
```

**Arguments**

id	integer required. The ID of the SQL script.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

scripts\_list\_sql\_runs *List runs for the given sql*

---

### Description

List runs for the given sql

### Usage

```
scripts_list_sql_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

### Arguments

id	integer required. The ID of the sql.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

### Value

An array containing the following fields:

id	integer, The ID of this run.
sqlId	integer, The ID of this sql.
state	string, The state of this run.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started.
finishedAt	string, The time that this run finished.
error	string, The error message for this run, if present.
output	array, An array containing the following fields: <ul style="list-style-type: none"> <li>outputName string, The name of the output file.</li> <li>fileId integer, The unique ID of the output file.</li> <li>path string, The temporary link to download this output file, valid for 36 hours.</li> </ul>



---

`scripts_list_sql_runs_logs`*Get the logs for a run*

---

**Description**

Get the logs for a run

**Usage**

```
scripts_list_sql_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

<code>id</code>	integer required. The ID of the sql.
<code>run_id</code>	integer required. The ID of the run.
<code>last_id</code>	integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
<code>limit</code>	integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

<code>id</code>	integer, The ID of the log.
<code>createdAt</code>	string, The time the log was created.
<code>message</code>	string, The log message.
<code>level</code>	string, The level of the log. One of unknown,fatal,error,warn,info,debug.

---

`scripts_list_sql_runs_outputs`*List the outputs for a run*

---

**Description**

List the outputs for a run

**Usage**

```
scripts_list_sql_runs_outputs(
    id,
    run_id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

id	integer required. The ID of the sql script.
run_id	integer required. The ID of the run.
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

objectType	string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId	integer, The ID of the output.
name	string, The name of the output.
link	string, The hypermedia link to the output.
value	string,

---

scripts\_list\_sql\_shares

*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

```
scripts_list_sql_shares(id)
```

**Arguments**

id integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts\_list\_types      *List available script types*

---

**Description**

List available script types

**Usage**

scripts\_list\_types()

**Value**

An array containing the following fields:

name	string, The name of the type.
------	-------------------------------

---

scripts_patch	<i>Update a script</i>
---------------	------------------------

---

**Description**

Update a script

**Usage**

```
scripts_patch(
  id,
  name = NULL,
  sql = NULL,
  params = NULL,
  arguments = NULL,
  template_script_id = NULL,
  schedule = NULL,
  notifications = NULL,
  parent_id = NULL
)
```

**Arguments**

id	integer required. The ID for the script.
name	string optional. The name of the script.
sql	string optional. The raw SQL query for the script.
params	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>

arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
template_script_id	integer optional. The ID of the template script, if any. A script cannot both have a template script and be a template for other scripts.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
parent_id	integer optional. The ID of the parent job that will trigger this script

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of script.
createdAt	string, The time this script was created.
updatedAt	string, The time this script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> </ul>

	<ul style="list-style-type: none"> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>

schedule	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"><li>• scheduled boolean, If the item is scheduled.</li><li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li><li>• scheduledHours array, Hours of the day it is scheduled on.</li><li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li><li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li></ul>
notifications	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"><li>• urls array, URLs to receive a POST request at job completion</li><li>• successEmailSubject string, Custom subject line for success e-mail.</li><li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li><li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li><li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li><li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li><li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li><li>• successOn boolean, If success email notifications are on.</li><li>• failureOn boolean, If failure email notifications are on.</li></ul>
runningAs	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"><li>• id integer,</li><li>• state string,</li><li>• createdAt string, The time that the run was queued.</li><li>• startedAt string, The time that the run started.</li><li>• finishedAt string, The time that the run completed.</li><li>• error string, The error message for this run, if present.</li></ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.

archived	string, The archival status of the requested item(s).
sql	string, The raw SQL query for the script.
expandedArguments	list, Expanded arguments for use in injecting into different environments.
templateScriptId	integer, The ID of the template script, if any.

---

scripts\_patch\_containers

*Update a container*

---

### Description

Update a container

### Usage

```
scripts_patch_containers(
  id,
  name = NULL,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  required_resources = NULL,
  repo_http_uri = NULL,
  repo_ref = NULL,
  remote_host_credential_id = NULL,
  git_credential_id = NULL,
  docker_command = NULL,
  docker_image_name = NULL,
  docker_image_tag = NULL,
  instance_type = NULL,
  cancel_timeout = NULL,
  time_zone = NULL,
  target_project_id = NULL
)
```

### Arguments

id	integer required. The ID for the script.
name	string optional. The name of the container.
parent_id	integer optional. The ID of the parent job that will trigger this script



user_context	string optional. "runner" or "author", who to execute the script as when run as a template.
params	array optional. An array containing the following fields: <ul style="list-style-type: none"><li>• name string, The variable's name as used within your code.</li><li>• label string, The label to present to users when asking them for the value.</li><li>• description string, A short sentence or fragment describing this parameter to the end user.</li><li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li><li>• required boolean, Whether this param is required.</li><li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li><li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li><li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li></ul>
arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"><li>• scheduled boolean, If the item is scheduled.</li><li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li><li>• scheduledHours array, Hours of the day it is scheduled on.</li><li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li><li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li></ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"><li>• urls array, URLs to receive a POST request at job completion</li><li>• successEmailSubject string, Custom subject line for success e-mail.</li><li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li><li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li><li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li><li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li><li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li></ul>

- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

required\_resources

list optional. A list containing the following elements:

- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
- memory integer, The amount of RAM to allocate for the container (in MB).
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.
- wholeInstance boolean, Whether or not to use the entire instance. If true, cpu, memory, and disk space are not required and will be set to an instance's max.

repo\_http\_uri string optional. The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

repo\_ref string optional. The tag or branch of the github repo to clone into the container.

remote\_host\_credential\_id integer optional. The id of the database credentials to pass into the environment of the container.

git\_credential\_id integer optional. The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you've submitted will be used. Unnecessary if no git repo is specified or the git repo is public.

docker\_command string optional. The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image's ENTRYPOINT/CMD.

docker\_image\_name string optional. The name of the docker image to pull from DockerHub.

docker\_image\_tag string optional. The tag of the docker image to pull from DockerHub.

instance\_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

cancel\_timeout integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

time\_zone string optional. The time zone of this script.

target\_project\_id integer optional. Target project to which script outputs will be added.

**Value**

A list containing the following elements:

id integer, The ID for the script.

name	string, The name of the container.
type	string, The type of the script (e.g Container)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
templateDependentsCount	integer, How many other scripts use this one as a template.

publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template script.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
requiredResources	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.</li> </ul>

- memory integer, The amount of RAM to allocate for the container (in MB).
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

repoHttpUri	string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.
repoRef	string, The tag or branch of the github repo to clone into the container.
remoteHostCredentialId	integer, The id of the database credentials to pass into the environment of the container.
gitCredentialId	integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you've submitted will be used. Unnecessary if no git repo is specified or the git repo is public.
dockerCommand	string, The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image's ENTRYPOINT/CMD.
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
timeZone	string, The time zone of this script.
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
targetProjectId	integer, Target project to which script outputs will be added.

---

scripts\_patch\_custom *Update some attributes of this Custom Script*

---

## Description

Update some attributes of this Custom Script

## Usage

```
scripts_patch_custom(
  id,
  name = NULL,
  parent_id = NULL,
  arguments = NULL,
  remote_host_id = NULL,
  credential_id = NULL,
  schedule = NULL,
  notifications = NULL,
  time_zone = NULL,
  target_project_id = NULL
)
```

## Arguments

id	integer required. The ID for the script.
name	string optional. The name of the script.
parent_id	integer optional. The ID of the parent job that will trigger this script
arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
remote_host_id	integer optional. The remote host ID that this script will connect to.
credential_id	integer optional. The credential that this script will use.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> </ul>

- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  - successOn boolean, If success email notifications are on.
  - failureOn boolean, If failure email notifications are on.
- time\_zone string optional. The time zone of this script.
- target\_project\_id integer optional. Target project to which script outputs will be added.

**Value**

A list containing the following elements:

- |            |   |
|------------|---|
| id         | integer, The ID for the script.   |
| name       | string, The name of the script.   |
| type       | string, The type of the script (e.g Custom)   |
| createdAt  | string, The time this script was created.   |
| updatedAt  | string, The time the script was last updated.   |
| author     | list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>                    |
| state      | string, The status of the script's last run.  |
| finishedAt | string, The time that the script's last run finished.   |
| category   | string,   |
| projects   | array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>   |
| parentId   | integer, The ID of the parent job that will trigger this script   |
| params     | array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> </ul> |

	<ul style="list-style-type: none"> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template script.
uiReportUrl	integer, The url of the custom HTML.
uiReportId	integer, The id of the report with the custom HTML.
uiReportProvideAPIKey	boolean, Whether the ui report requests an API Key from the report viewer.
templateScriptName	string, The name of the template script.
templateNote	string, The template's note.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.
codePreview	string, The code that this script will run with arguments inserted.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> </ul>



	<ul style="list-style-type: none"><li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li><li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li><li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li><li>• successOn boolean, If success email notifications are on.</li><li>• failureOn boolean, If failure email notifications are on.</li></ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer,</li><li>• state string,</li><li>• createdAt string, The time that the run was queued.</li><li>• startedAt string, The time that the run started.</li><li>• finishedAt string, The time that the run completed.</li><li>• error string, The error message for this run, if present.</li></ul>
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
targetProjectId	integer, Target project to which script outputs will be added.
lastSuccessfulRun	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer,</li><li>• state string,</li><li>• createdAt string, The time that the run was queued.</li><li>• startedAt string, The time that the run started.</li><li>• finishedAt string, The time that the run completed.</li><li>• error string, The error message for this run, if present.</li></ul>

---

 scripts\_patch\_javascript

*Update some attributes of this JavaScript Script*


---

### Description

Update some attributes of this JavaScript Script

### Usage

```
scripts_patch_javascript(
  id,
  name = NULL,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  target_project_id = NULL,
  source = NULL,
  remote_host_id = NULL,
  credential_id = NULL
)
```

### Arguments

id	integer required. The ID for the script.
name	string optional. The name of the script.
parent_id	integer optional. The ID of the parent job that will trigger this script
user_context	string optional. "runner" or "author", who to execute the script as when run as a template.
params	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> </ul>

	<ul style="list-style-type: none"> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
next_run_at	string optional. The time of the next scheduled run.
time_zone	string optional. The time zone of this script.
target_project_id	integer optional. Target project to which script outputs will be added.
source	string optional. The body/text of the script.
remote_host_id	integer optional. The remote host ID that this script will connect to.
credential_id	integer optional. The credential that this script will use.

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.

timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
source	string, The body/text of the script.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.

---

scripts\_patch\_python3 *Update some attributes of this Python Script*

---

## Description

Update some attributes of this Python Script

## Usage

```
scripts_patch_python3(
    id,
    name = NULL,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    target_project_id = NULL,
    required_resources = NULL,
    instance_type = NULL,
    source = NULL,
    cancel_timeout = NULL,
    docker_image_tag = NULL
)
```

**Arguments**

id	integer required. The ID for the script.
name	string optional. The name of the script.
parent_id	integer optional. The ID of the parent job that will trigger this script
user_context	string optional. "runner" or "author", who to execute the script as when run as a template.
params	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>
arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> </ul>

- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next\_run\_at      string optional. The time of the next scheduled run.

time\_zone        string optional. The time zone of this script.

target\_project\_id  
                  integer optional. Target project to which script outputs will be added.

required\_resources  
                  list optional. A list containing the following elements:

- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instance\_type    string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

source            string optional. The body/text of the script.

cancel\_timeout   integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

docker\_image\_tag  
                  string optional. The tag of the docker image to pull from DockerHub.

**Value**

A list containing the following elements:

id                integer, The ID for the script.

name             string, The name of the script.

type             string, The type of the script (e.g SQL, Container, Python, R, JavaScript)

createdAt        string, The time this script was created.

updatedAt        string, The time the script was last updated.

author           list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user's name.



	<ul style="list-style-type: none"> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>

schedule	list, A list containing the following elements: <ul style="list-style-type: none"><li>• scheduled boolean, If the item is scheduled.</li><li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li><li>• scheduledHours array, Hours of the day it is scheduled on.</li><li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li><li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li></ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"><li>• urls array, URLs to receive a POST request at job completion</li><li>• successEmailSubject string, Custom subject line for success e-mail.</li><li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li><li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li><li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li><li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li><li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li><li>• successOn boolean, If success email notifications are on.</li><li>• failureOn boolean, If failure email notifications are on.</li></ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer,</li><li>• state string,</li><li>• createdAt string, The time that the run was queued.</li><li>• startedAt string, The time that the run started.</li><li>• finishedAt string, The time that the run completed.</li><li>• error string, The error message for this run, if present.</li></ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.

archived	string, The archival status of the requested item(s).
requiredResources	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</li> <li>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</li> <li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li> </ul>
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source	string, The body/text of the script.
cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.

---

scripts\_patch\_r

*Update some attributes of this R Script*


---

## Description

Update some attributes of this R Script

## Usage

```
scripts_patch_r(
  id,
  name = NULL,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  target_project_id = NULL,
  required_resources = NULL,
  instance_type = NULL,
  source = NULL,
  cancel_timeout = NULL,
  docker_image_tag = NULL
)
```

**Arguments**

id	integer required. The ID for the script.
name	string optional. The name of the script.
parent_id	integer optional. The ID of the parent job that will trigger this script
user_context	string optional. "runner" or "author", who to execute the script as when run as a template.
params	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import' '</li> </ul>
arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> </ul>

- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next\_run\_at string optional. The time of the next scheduled run.

time\_zone string optional. The time zone of this script.

target\_project\_id integer optional. Target project to which script outputs will be added.

required\_resources list optional. A list containing the following elements:

- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instance\_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

source string optional. The body/text of the script.

cancel\_timeout integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

docker\_image\_tag string optional. The tag of the docker image to pull from DockerHub.

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> </ul>

	<ul style="list-style-type: none"> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>

schedule	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"><li>• scheduled boolean, If the item is scheduled.</li><li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li><li>• scheduledHours array, Hours of the day it is scheduled on.</li><li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li><li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li></ul>
notifications	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"><li>• urls array, URLs to receive a POST request at job completion</li><li>• successEmailSubject string, Custom subject line for success e-mail.</li><li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li><li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li><li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li><li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li><li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li><li>• successOn boolean, If success email notifications are on.</li><li>• failureOn boolean, If failure email notifications are on.</li></ul>
runningAs	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"><li>• id integer,</li><li>• state string,</li><li>• createdAt string, The time that the run was queued.</li><li>• startedAt string, The time that the run started.</li><li>• finishedAt string, The time that the run completed.</li><li>• error string, The error message for this run, if present.</li></ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.

archived	string, The archival status of the requested item(s).
requiredResources	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</li> <li>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</li> <li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li> </ul>
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source	string, The body/text of the script.
cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.

---

scripts\_patch\_sql      *Update some attributes of this SQL script*

---

## Description

Update some attributes of this SQL script

## Usage

```
scripts_patch_sql(
  id,
  name = NULL,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  target_project_id = NULL,
  sql = NULL,
  remote_host_id = NULL,
  credential_id = NULL,
  csv_settings = NULL
)
```



**Arguments**

id	integer required. The ID for the script.
name	string optional. The name of the script.
parent_id	integer optional. The ID of the parent job that will trigger this script
user_context	string optional. "runner" or "author", who to execute the script as when run as a template.
params	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import' '</li> </ul>
arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> </ul>

- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next\_run\_at string optional. The time of the next scheduled run.

time\_zone string optional. The time zone of this script.

target\_project\_id integer optional. Target project to which script outputs will be added.

sql string optional. The raw SQL query for the script.

remote\_host\_id integer optional. The remote host ID that this script will connect to.

credential\_id integer optional. The credential that this script will use.

csv\_settings list optional. A list containing the following elements:

- includeHeader boolean, Whether or not to include headers in the output data. Default: true
- compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
- columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
- unquoted boolean, Whether or not to quote fields. Default: false
- forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false
- filenamePrefix string, A user specified filename prefix for the output file to have. Default: null
- maxFileSize integer, The max file size, in MB, created files will be. Only available when force\_multifile is true.

## Value

A list containing the following elements:

id integer, The ID for the script.

name string, The name of the script.

type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)

createdAt string, The time this script was created.

updatedAt string, The time the script was last updated.

author list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user's name.
- username string, This user's username.

	<ul style="list-style-type: none"> <li>initials string, This user's initials.</li> <li>online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>id integer, The ID for the project.</li> <li>name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>name string, The variable's name as used within your code.</li> <li>label string, The label to present to users when asking them for the value.</li> <li>description string, A short sentence or fragment describing this parameter to the end user.</li> <li>type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>required boolean, Whether this param is required.</li> <li>value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>details string, The details link to get more information about the script.</li> <li>runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements:

	<ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).

sql	string, The raw SQL query for the script.
expandedArguments	list, Expanded arguments for use in injecting into different environments.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.
codePreview	string, The code that this script will run with arguments inserted.
csvSettings	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• includeHeader boolean, Whether or not to include headers in the output data. Default: true</li> <li>• compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip</li> <li>• columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma</li> <li>• unquoted boolean, Whether or not to quote fields. Default: false</li> <li>• forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false</li> <li>• filenamePrefix string, A user specified filename prefix for the output file to have. Default: null</li> <li>• maxFileSize integer, The max file size, in MB, created files will be. Only available when force_multifile is true.</li> </ul>

---

scripts\_post

---

*Create a script*


---

## Description

Create a script

## Usage

```
scripts_post(
  name,
  remote_host_id,
  credential_id,
  sql,
  params = NULL,
  arguments = NULL,
  template_script_id = NULL,
  notifications = NULL,
  hidden = NULL
)
```

**Arguments**

name	string required. The name of the script.
remote_host_id	integer required. The database ID.
credential_id	integer required. The credential ID.
sql	string required. The raw SQL query for the script.
params	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
template_script_id	integer optional. The ID of the template script, if any. A script cannot both have a template script and be a template for other scripts.
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> </ul>

- successOn boolean, If success email notifications are on.
  - failureOn boolean, If failure email notifications are on.
- hidden            boolean optional. The hidden status of the item.

**Value**

A list containing the following elements:

- |             |  |
|-------------|--|
| id          | integer, The ID for the script.  |
| name        | string, The name of the script.  |
| type        | string, The type of the script (e.g SQL, Container, Python, R, JavaScript)   |
| createdAt   | string, The time this script was created.  |
| updatedAt   | string, The time the script was last updated.  |
| author      | list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>   |
| state       | string, The status of the script's last run.   |
| finishedAt  | string, The time that the script's last run finished.  |
| category    | string, The category of the script.  |
| projects    | array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>  |
| parentId    | integer, The ID of the parent job that will trigger this script  |
| userContext | string, "runner" or "author", who to execute the script as when run as a template.   |
| params      | array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> </ul> |

	<ul style="list-style-type: none"> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> </ul>



	<ul style="list-style-type: none"> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
templateScriptId	integer, The ID of the template script, if any.

---

scripts\_post\_cancel    *Cancel a run*

---

### Description

Cancel a run

### Usage

```
scripts_post_cancel(id)
```

### Arguments

id                    integer required. The ID of the job.

### Value

A list containing the following elements:

id	integer, The ID of the run.
state	string, The state of the run, one of 'queued', 'running' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.

---

scripts\_post\_containers

*Create a container*

---

## Description

Create a container

## Usage

```
scripts_post_containers(  
    required_resources,  
    docker_image_name,  
    name = NULL,  
    parent_id = NULL,  
    user_context = NULL,  
    params = NULL,  
    arguments = NULL,  
    schedule = NULL,  
    notifications = NULL,  
    repo_http_uri = NULL,  
    repo_ref = NULL,  
    remote_host_credential_id = NULL,  
    git_credential_id = NULL,  
    docker_command = NULL,  
    docker_image_tag = NULL,  
    instance_type = NULL,  
    cancel_timeout = NULL,  
    time_zone = NULL,  
    hidden = NULL,  
    target_project_id = NULL  
)
```

## Arguments

required\_resources

list required. A list containing the following elements:

- `cpu` integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
- `memory` integer, The amount of RAM to allocate for the container (in MB).
- `diskSpace` number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to `/tmp` or `/data`. Fractional values (e.g. 0.25) are supported.
- `wholeInstance` boolean, Whether or not to use the entire instance. If true, `cpu`, `memory`, and `disk space` are not required and will be set to an instance's max.

docker_image_name	string required. The name of the docker image to pull from DockerHub.
name	string optional. The name of the container.
parent_id	integer optional. The ID of the parent job that will trigger this script
user_context	string optional. "runner" or "author", who to execute the script as when run as a template.
params	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>
arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> </ul>

- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

repo\_http\_uri string optional. The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

repo\_ref string optional. The tag or branch of the github repo to clone into the container.

remote\_host\_credential\_id integer optional. The id of the database credentials to pass into the environment of the container.

git\_credential\_id integer optional. The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you've submitted will be used. Unnecessary if no git repo is specified or the git repo is public.

docker\_command string optional. The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image's ENTRY-POINT/CMD.

docker\_image\_tag string optional. The tag of the docker image to pull from DockerHub.

instance\_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

cancel\_timeout integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

time\_zone string optional. The time zone of this script.

hidden boolean optional. The hidden status of the item.

target\_project\_id integer optional. Target project to which script outputs will be added.

## Value

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the container.
type	string, The type of the script (e.g Container)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> </ul>

	<ul style="list-style-type: none"> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
templateDependentsCount	integer, How many other scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template script.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>

schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
requiredResources	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.</li> <li>• memory integer, The amount of RAM to allocate for the container (in MB).</li> <li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li> </ul>
repoHttpUri	string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.
repoRef	string, The tag or branch of the github repo to clone into the container.

remoteHostCredentialId	integer, The id of the database credentials to pass into the environment of the container.
gitCredentialId	integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you've submitted will be used. Unnecessary if no git repo is specified or the git repo is public.
dockerCommand	string, The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image's ENTRYPOINT/CMD.
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
timeZone	string, The time zone of this script.
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
targetProjectId	integer, Target project to which script outputs will be added.

---

scripts\_post\_containers\_clone

*Clone this Container Script*

---

## Description

Clone this Container Script

## Usage

```
scripts_post_containers_clone(
  id,
  clone_schedule = NULL,
  clone_triggers = NULL,
  clone_notifications = NULL
)
```

**Arguments**

id	integer required. The ID for the script.
clone_schedule	boolean optional. If true, also copy the schedule to the new script.
clone_triggers	boolean optional. If true, also copy the triggers to the new script.
clone_notifications	boolean optional. If true, also copy the notifications to the new script.

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the container.
type	string, The type of the script (e.g Container)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> </ul>



	<ul style="list-style-type: none"> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
templateDependentsCount	integer, How many other scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template script.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> </ul>

	<ul style="list-style-type: none"> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
requiredResources	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.</li> <li>• memory integer, The amount of RAM to allocate for the container (in MB).</li> <li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li> </ul>
repoHttpUri	string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.
repoRef	string, The tag or branch of the github repo to clone into the container.
remoteHostCredentialId	integer, The id of the database credentials to pass into the environment of the container.
gitCredentialId	integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you've submitted will be used. Unnecessary if no git repo is specified or the git repo is public.
dockerCommand	string, The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image's ENTRYPOINT/CMD.
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>

timeZone	string, The time zone of this script.
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
targetProjectId	integer, Target project to which script outputs will be added.

---

scripts\_post\_containers\_runs

*Start a run*

---

### Description

Start a run

### Usage

scripts\_post\_containers\_runs(id)

### Arguments

id integer required. The ID of the container.

### Value

A list containing the following elements:

id	integer, The ID of the run.
containerId	integer, The ID of the container.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

scripts\_post\_containers\_runs\_logs  
*Add log messages*

---

### Description

Add log messages

### Usage

```
scripts_post_containers_runs_logs(  
  id,  
  run_id,  
  message = NULL,  
  level = NULL,  
  messages = NULL,  
  child_job_id = NULL  
)
```

### Arguments

id	integer required. The ID of the script.
run_id	integer required. The ID of the script run.
message	string optional. The log message to store.
level	string optional. The log level of this message [default: info]
messages	array optional. An array containing the following fields: <ul style="list-style-type: none"><li>• message string, The log message to store.</li><li>• level string, The log level of this message [default: info]</li><li>• createdAt string, The timestamp of this message in ISO 8601 format. This is what logs are ordered by, so it is recommended to use timestamps with nanosecond precision. If absent, defaults to the time that the log was received by the API.</li></ul>
child_job_id	integer optional. The ID of the child job the message came from.

### Value

An empty HTTP response

---

scripts\_post\_containers\_runs\_outputs  
*Add an output for a run*

---

**Description**

Add an output for a run

**Usage**

scripts\_post\_containers\_runs\_outputs(id, run\_id, object\_type, object\_id)

**Arguments**

id	integer required. The ID of the container script.
run_id	integer required. The ID of the run.
object_type	string required. The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
object_id	integer required. The ID of the output.

**Value**

A list containing the following elements:

objectType	string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId	integer, The ID of the output.
name	string, The name of the output.
link	string, The hypermedia link to the output.
value	string,

---

scripts\_post\_custom *Create a Custom Script*

---

**Description**

Create a Custom Script

**Usage**

```

scripts_post_custom(
  from_template_id,
  name = NULL,
  parent_id = NULL,
  arguments = NULL,
  remote_host_id = NULL,
  credential_id = NULL,
  schedule = NULL,
  notifications = NULL,
  time_zone = NULL,
  hidden = NULL,
  target_project_id = NULL
)

```

**Arguments**

from_template_id	integer required. The ID of the template script.
name	string optional. The name of the script.
parent_id	integer optional. The ID of the parent job that will trigger this script
arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
remote_host_id	integer optional. The remote host ID that this script will connect to.
credential_id	integer optional. The credential that this script will use.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> </ul>

	<ul style="list-style-type: none"> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
time_zone	string optional. The time zone of this script.
hidden	boolean optional. The hidden status of the item.
target_project_id	integer optional. Target project to which script outputs will be added.

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g Custom)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string,
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> </ul>

	<ul style="list-style-type: none"> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template script.
uiReportUrl	integer, The url of the custom HTML.
uiReportId	integer, The id of the report with the custom HTML.
uiReportProvideAPIKey	boolean, Whether the ui report requests an API Key from the report viewer.
templateScriptName	string, The name of the template script.
templateNote	string, The template's note.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.
codePreview	string, The code that this script will run with arguments inserted.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> </ul>



	<ul style="list-style-type: none"> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
targetProjectId	integer, Target project to which script outputs will be added.
lastSuccessfulRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>

---

scripts\_post\_custom\_clone

*Clone this Custom Script*

---

## Description

Clone this Custom Script

**Usage**

```
scripts_post_custom_clone(
    id,
    clone_schedule = NULL,
    clone_triggers = NULL,
    clone_notifications = NULL
)
```

**Arguments**

`id` integer required. The ID for the script.

`clone_schedule` boolean optional. If true, also copy the schedule to the new script.

`clone_triggers` boolean optional. If true, also copy the triggers to the new script.

`clone_notifications` boolean optional. If true, also copy the notifications to the new script.

**Value**

A list containing the following elements:

<code>id</code>	integer, The ID for the script.
<code>name</code>	string, The name of the script.
<code>type</code>	string, The type of the script (e.g Custom)
<code>createdAt</code>	string, The time this script was created.
<code>updatedAt</code>	string, The time the script was last updated.
<code>author</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li><code>id</code> integer, The ID of this user.</li> <li><code>name</code> string, This user's name.</li> <li><code>username</code> string, This user's username.</li> <li><code>initials</code> string, This user's initials.</li> <li><code>online</code> boolean, Whether this user is online.</li> </ul>
<code>state</code>	string, The status of the script's last run.
<code>finishedAt</code>	string, The time that the script's last run finished.
<code>category</code>	string,
<code>projects</code>	array, An array containing the following fields: <ul style="list-style-type: none"> <li><code>id</code> integer, The ID for the project.</li> <li><code>name</code> string, The name of the project.</li> </ul>
<code>parentId</code>	integer, The ID of the parent job that will trigger this script
<code>params</code>	array, An array containing the following fields: <ul style="list-style-type: none"> <li><code>name</code> string, The variable's name as used within your code.</li> <li><code>label</code> string, The label to present to users when asking them for the value.</li> <li><code>description</code> string, A short sentence or fragment describing this parameter to the end user.</li> </ul>

	<ul style="list-style-type: none"> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template script.
uiReportUrl	integer, The url of the custom HTML.
uiReportId	integer, The id of the report with the custom HTML.
uiReportProvideAPIKey	boolean, Whether the ui report requests an API Key from the report viewer.
templateScriptName	string, The name of the template script.
templateNote	string, The template's note.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.
codePreview	string, The code that this script will run with arguments inserted.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> </ul>

	<ul style="list-style-type: none"> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
timeZone	string, The time zone of this script.
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
targetProjectId	integer, Target project to which script outputs will be added.
lastSuccessfulRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>

---

 scripts\_post\_custom\_runs

*Start a run*


---

**Description**

Start a run

**Usage**

scripts\_post\_custom\_runs(id)

**Arguments**

id                    integer required. The ID of the custom.

**Value**

A list containing the following elements:

id	integer, The ID of the run.
customId	integer, The ID of the custom.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

 scripts\_post\_custom\_runs\_outputs

*Add an output for a run*


---

**Description**

Add an output for a run

**Usage**

scripts\_post\_custom\_runs\_outputs(id, run\_id, object\_type, object\_id)

**Arguments**

id	integer required. The ID of the custom script.
run_id	integer required. The ID of the run.
object_type	string required. The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
object_id	integer required. The ID of the output.

**Value**

A list containing the following elements:

objectType	string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId	integer, The ID of the output.
name	string, The name of the output.
link	string, The hypermedia link to the output.
value	string,

---

scripts\_post\_javascript

*Create a JavaScript Script*

---

**Description**

Create a JavaScript Script

**Usage**

```
scripts_post_javascript(
  name,
  source,
  remote_host_id,
  credential_id,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  hidden = NULL,
  target_project_id = NULL
)
```

**Arguments**

name	string required. The name of the script.
source	string required. The body/text of the script.
remote_host_id	integer required. The remote host ID that this script will connect to.
credential_id	integer required. The credential that this script will use.
parent_id	integer optional. The ID of the parent job that will trigger this script
user_context	string optional. "runner" or "author", who to execute the script as when run as a template.
params	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> </ul>

- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next_run_at	string optional. The time of the next scheduled run.
time_zone	string optional. The time zone of this script.
hidden	boolean optional. The hidden status of the item.
target_project_id	integer optional. Target project to which script outputs will be added.

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> </ul>



- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi\_line\_string, integer, float, bool, file, table, database, credential\_aws, credential\_redshift, or credential\_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''

arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> </ul>

	<ul style="list-style-type: none"> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
source	string, The body/text of the script.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.

---

scripts\_post\_javascript\_clone

*Clone this JavaScript Script*

---

## Description

Clone this JavaScript Script

**Usage**

```
scripts_post_javascript_clone(
    id,
    clone_schedule = NULL,
    clone_triggers = NULL,
    clone_notifications = NULL
)
```

**Arguments**

`id` integer required. The ID for the script.

`clone_schedule` boolean optional. If true, also copy the schedule to the new script.

`clone_triggers` boolean optional. If true, also copy the triggers to the new script.

`clone_notifications` boolean optional. If true, also copy the notifications to the new script.

**Value**

A list containing the following elements:

<code>id</code>	integer, The ID for the script.
<code>name</code>	string, The name of the script.
<code>type</code>	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
<code>createdAt</code>	string, The time this script was created.
<code>updatedAt</code>	string, The time the script was last updated.
<code>author</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li><code>id</code> integer, The ID of this user.</li> <li><code>name</code> string, This user's name.</li> <li><code>username</code> string, This user's username.</li> <li><code>initials</code> string, This user's initials.</li> <li><code>online</code> boolean, Whether this user is online.</li> </ul>
<code>state</code>	string, The status of the script's last run.
<code>finishedAt</code>	string, The time that the script's last run finished.
<code>category</code>	string, The category of the script.
<code>projects</code>	array, An array containing the following fields: <ul style="list-style-type: none"> <li><code>id</code> integer, The ID for the project.</li> <li><code>name</code> string, The name of the project.</li> </ul>
<code>parentId</code>	integer, The ID of the parent job that will trigger this script
<code>userContext</code>	string, "runner" or "author", who to execute the script as when run as a template.
<code>params</code>	array, An array containing the following fields: <ul style="list-style-type: none"> <li><code>name</code> string, The variable's name as used within your code.</li> <li><code>label</code> string, The label to present to users when asking them for the value.</li> </ul>

- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi\_line\_string, integer, float, bool, file, table, database, credential\_aws, credential\_redshift, or credential\_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''

arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> </ul>

	<ul style="list-style-type: none"> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
source	string, The body/text of the script.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.

---

 scripts\_post\_javascript\_git\_commits

*Commit and push a new version of the file*


---

## Description

Commit and push a new version of the file

**Usage**

```
scripts_post_javascript_git_commits(id, content, message, file_hash)
```

**Arguments**

id	integer required. The ID of the file.
content	string required. The contents to commit to the file.
message	string required. A commit message describing the changes being made.
file_hash	string required. The full SHA of the file being replaced.

**Value**

A list containing the following elements:

content	string, The file's contents.
type	string, The file's type.
size	integer, The file's size.
fileHash	string, The SHA of the file.

---

```
scripts_post_javascript_runs
```

*Start a run*

---

**Description**

Start a run

**Usage**

```
scripts_post_javascript_runs(id)
```

**Arguments**

id	integer required. The ID of the javascript.
----	---

**Value**

A list containing the following elements:

id	integer, The ID of the run.
javascriptId	integer, The ID of the javascript.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

scripts\_post\_javascript\_runs\_outputs  
*Add an output for a run*

---

**Description**

Add an output for a run

**Usage**

scripts\_post\_javascript\_runs\_outputs(id, run\_id, object\_type, object\_id)

**Arguments**

id	integer required. The ID of the javascript script.
run_id	integer required. The ID of the run.
object_type	string required. The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
object_id	integer required. The ID of the output.

**Value**

A list containing the following elements:

objectType	string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId	integer, The ID of the output.
name	string, The name of the output.
link	string, The hypermedia link to the output.
value	string,

---

scripts\_post\_python3 *Create a Python Script*

---

**Description**

Create a Python Script

**Usage**

```

scripts_post_python3(
    name,
    source,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    hidden = NULL,
    target_project_id = NULL,
    required_resources = NULL,
    instance_type = NULL,
    cancel_timeout = NULL,
    docker_image_tag = NULL
)

```

**Arguments**

name	string required. The name of the script.
source	string required. The body/text of the script.
parent_id	integer optional. The ID of the parent job that will trigger this script
user_context	string optional. "runner" or "author", who to execute the script as when run as a template.
params	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>



arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"><li>• scheduled boolean, If the item is scheduled.</li><li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li><li>• scheduledHours array, Hours of the day it is scheduled on.</li><li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li><li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li></ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"><li>• urls array, URLs to receive a POST request at job completion</li><li>• successEmailSubject string, Custom subject line for success e-mail.</li><li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li><li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li><li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li><li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li><li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li><li>• successOn boolean, If success email notifications are on.</li><li>• failureOn boolean, If failure email notifications are on.</li></ul>
next_run_at	string optional. The time of the next scheduled run.
time_zone	string optional. The time zone of this script.
hidden	boolean optional. The hidden status of the item.
target_project_id	integer optional. Target project to which script outputs will be added.
required_resources	list optional. A list containing the following elements: <ul style="list-style-type: none"><li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</li><li>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</li><li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li></ul>
instance_type	string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

cancel_timeout	integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
docker_image_tag	string optional. The tag of the docker image to pull from DockerHub.

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> </ul>

- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'

arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> </ul>

	<ul style="list-style-type: none"><li>• failureOn boolean, If failure email notifications are on.</li></ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer,</li><li>• state string,</li><li>• createdAt string, The time that the run was queued.</li><li>• startedAt string, The time that the run started.</li><li>• finishedAt string, The time that the run completed.</li><li>• error string, The error message for this run, if present.</li></ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
requiredResources	list, A list containing the following elements: <ul style="list-style-type: none"><li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</li><li>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</li><li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li></ul>
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source	string, The body/text of the script.
cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.

---

scripts\_post\_python3\_clone  
*Clone this Python Script*

---

## Description

Clone this Python Script

## Usage

```
scripts_post_python3_clone(
    id,
    clone_schedule = NULL,
    clone_triggers = NULL,
    clone_notifications = NULL
)
```

## Arguments

`id` integer required. The ID for the script.

`clone_schedule` boolean optional. If true, also copy the schedule to the new script.

`clone_triggers` boolean optional. If true, also copy the triggers to the new script.

`clone_notifications` boolean optional. If true, also copy the notifications to the new script.

## Value

A list containing the following elements:

<code>id</code>	integer, The ID for the script.
<code>name</code>	string, The name of the script.
<code>type</code>	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
<code>createdAt</code>	string, The time this script was created.
<code>updatedAt</code>	string, The time the script was last updated.
<code>author</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li><code>id</code> integer, The ID of this user.</li> <li><code>name</code> string, This user's name.</li> <li><code>username</code> string, This user's username.</li> <li><code>initials</code> string, This user's initials.</li> <li><code>online</code> boolean, Whether this user is online.</li> </ul>
<code>state</code>	string, The status of the script's last run.
<code>finishedAt</code>	string, The time that the script's last run finished.
<code>category</code>	string, The category of the script.

projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>

notifications	list, A list containing the following elements: <ul style="list-style-type: none"><li>• urls array, URLs to receive a POST request at job completion</li><li>• successEmailSubject string, Custom subject line for success e-mail.</li><li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li><li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li><li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li><li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li><li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li><li>• successOn boolean, If success email notifications are on.</li><li>• failureOn boolean, If failure email notifications are on.</li></ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer,</li><li>• state string,</li><li>• createdAt string, The time that the run was queued.</li><li>• startedAt string, The time that the run started.</li><li>• finishedAt string, The time that the run completed.</li><li>• error string, The error message for this run, if present.</li></ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
requiredResources	list, A list containing the following elements: <ul style="list-style-type: none"><li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</li><li>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</li></ul>

- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source	string, The body/text of the script.
cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.

---

scripts\_post\_python3\_git\_commits

*Commit and push a new version of the file*

---

### Description

Commit and push a new version of the file

### Usage

```
scripts_post_python3_git_commits(id, content, message, file_hash)
```

### Arguments

id	integer required. The ID of the file.
content	string required. The contents to commit to the file.
message	string required. A commit message describing the changes being made.
file_hash	string required. The full SHA of the file being replaced.

### Value

A list containing the following elements:

content	string, The file's contents.
type	string, The file's type.
size	integer, The file's size.
fileHash	string, The SHA of the file.



---

scripts\_post\_python3\_runs

*Start a run*

---

**Description**

Start a run

**Usage**

scripts\_post\_python3\_runs(id)

**Arguments**

id                    integer required. The ID of the python.

**Value**

A list containing the following elements:

id	integer, The ID of the run.
pythonId	integer, The ID of the python.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

scripts\_post\_python3\_runs\_outputs

*Add an output for a run*

---

**Description**

Add an output for a run

**Usage**

scripts\_post\_python3\_runs\_outputs(id, run\_id, object\_type, object\_id)

**Arguments**

id	integer required. The ID of the python script.
run_id	integer required. The ID of the run.
object_type	string required. The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
object_id	integer required. The ID of the output.

**Value**

A list containing the following elements:

objectType	string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId	integer, The ID of the output.
name	string, The name of the output.
link	string, The hypermedia link to the output.
value	string,

---

scripts_post_r	<i>Create an R Script</i>
----------------	---------------------------

---

**Description**

Create an R Script

**Usage**

```
scripts_post_r(
  name,
  source,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  hidden = NULL,
  target_project_id = NULL,
  required_resources = NULL,
  instance_type = NULL,
  cancel_timeout = NULL,
  docker_image_tag = NULL
)
```

**Arguments**

name	string required. The name of the script.
source	string required. The body/text of the script.
parent_id	integer optional. The ID of the parent job that will trigger this script
user_context	string optional. "runner" or "author", who to execute the script as when run as a template.
params	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import' '</li> </ul>
arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> </ul>

- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next\_run\_at string optional. The time of the next scheduled run.

time\_zone string optional. The time zone of this script.

hidden boolean optional. The hidden status of the item.

target\_project\_id integer optional. Target project to which script outputs will be added.

required\_resources list optional. A list containing the following elements:

- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instance\_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

cancel\_timeout integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

docker\_image\_tag string optional. The tag of the docker image to pull from DockerHub.

## Value

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> </ul>

	<ul style="list-style-type: none"> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>

schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.

archived	string, The archival status of the requested item(s).
requiredResources	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</li> <li>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</li> <li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li> </ul>
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source	string, The body/text of the script.
cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.

---

scripts_post_run	<i>Run a script</i>
------------------	---------------------

---

### Description

Run a script

### Usage

```
scripts_post_run(id)
```

### Arguments

id integer required. The ID for the script.

### Value

An empty HTTP response

---

 scripts\_post\_r\_clone *Clone this R Script*


---

**Description**

Clone this R Script

**Usage**

```
scripts_post_r_clone(
  id,
  clone_schedule = NULL,
  clone_triggers = NULL,
  clone_notifications = NULL
)
```

**Arguments**

`id` integer required. The ID for the script.

`clone_schedule` boolean optional. If true, also copy the schedule to the new script.

`clone_triggers` boolean optional. If true, also copy the triggers to the new script.

`clone_notifications` boolean optional. If true, also copy the notifications to the new script.

**Value**

A list containing the following elements:

<code>id</code>	integer, The ID for the script.
<code>name</code>	string, The name of the script.
<code>type</code>	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
<code>createdAt</code>	string, The time this script was created.
<code>updatedAt</code>	string, The time the script was last updated.
<code>author</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• <code>id</code> integer, The ID of this user.</li> <li>• <code>name</code> string, This user's name.</li> <li>• <code>username</code> string, This user's username.</li> <li>• <code>initials</code> string, This user's initials.</li> <li>• <code>online</code> boolean, Whether this user is online.</li> </ul>
<code>state</code>	string, The status of the script's last run.
<code>finishedAt</code>	string, The time that the script's last run finished.
<code>category</code>	string, The category of the script.
<code>projects</code>	array, An array containing the following fields:



	<ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>

notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
requiredResources	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</li> <li>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</li> </ul>

	<ul style="list-style-type: none"> <li>• <code>diskSpace</code> number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to <code>/tmp</code> or <code>/data</code>. Fractional values (e.g. 0.25) are supported.</li> </ul>
<code>instanceType</code>	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
<code>source</code>	string, The body/text of the script.
<code>cancelTimeout</code>	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
<code>dockerImageTag</code>	string, The tag of the docker image to pull from DockerHub.

---

 scripts\_post\_r\_git\_commits

*Commit and push a new version of the file*

---

## Description

Commit and push a new version of the file

## Usage

```
scripts_post_r_git_commits(id, content, message, file_hash)
```

## Arguments

<code>id</code>	integer required. The ID of the file.
<code>content</code>	string required. The contents to commit to the file.
<code>message</code>	string required. A commit message describing the changes being made.
<code>file_hash</code>	string required. The full SHA of the file being replaced.

## Value

A list containing the following elements:

<code>content</code>	string, The file's contents.
<code>type</code>	string, The file's type.
<code>size</code>	integer, The file's size.
<code>fileHash</code>	string, The SHA of the file.

---

scripts\_post\_r\_runs     *Start a run*

---

**Description**

Start a run

**Usage**

scripts\_post\_r\_runs(id)

**Arguments**

id                    integer required. The ID of the r.

**Value**

A list containing the following elements:

id	integer, The ID of the run.
rId	integer, The ID of the r.
state	string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started at.
finishedAt	string, The time the last run completed.
error	string, The error, if any, returned by the run.

---

scripts\_post\_r\_runs\_outputs  
                                  *Add an output for a run*

---

**Description**

Add an output for a run

**Usage**

scripts\_post\_r\_runs\_outputs(id, run\_id, object\_type, object\_id)

**Arguments**

id	integer required. The ID of the r script.
run_id	integer required. The ID of the run.
object_type	string required. The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
object_id	integer required. The ID of the output.

**Value**

A list containing the following elements:

objectType	string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId	integer, The ID of the output.
name	string, The name of the output.
link	string, The hypermedia link to the output.
value	string,

---

scripts_post_sql	<i>Create a SQL script</i>
------------------	----------------------------

---

**Description**

Create a SQL script

**Usage**

```
scripts_post_sql(
  name,
  sql,
  remote_host_id,
  credential_id,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  hidden = NULL,
  target_project_id = NULL,
  csv_settings = NULL
)
```

**Arguments**

name	string required. The name of the script.
sql	string required. The raw SQL query for the script.
remote_host_id	integer required. The remote host ID that this script will connect to.
credential_id	integer required. The credential that this script will use.
parent_id	integer optional. The ID of the parent job that will trigger this script
user_context	string optional. "runner" or "author", who to execute the script as when run as a template.
params	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> </ul>

- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next\_run\_at string optional. The time of the next scheduled run.

time\_zone string optional. The time zone of this script.

hidden boolean optional. The hidden status of the item.

target\_project\_id integer optional. Target project to which script outputs will be added.

csv\_settings list optional. A list containing the following elements:

- includeHeader boolean, Whether or not to include headers in the output data. Default: true
- compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
- columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
- unquoted boolean, Whether or not to quote fields. Default: false
- forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false
- filenamePrefix string, A user specified filename prefix for the output file to have. Default: null
- maxFileSize integer, The max file size, in MB, created files will be. Only available when force\_multifile is true.

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> </ul>

	<ul style="list-style-type: none"> <li>initials string, This user's initials.</li> <li>online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>id integer, The ID for the project.</li> <li>name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>name string, The variable's name as used within your code.</li> <li>label string, The label to present to users when asking them for the value.</li> <li>description string, A short sentence or fragment describing this parameter to the end user.</li> <li>type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>required boolean, Whether this param is required.</li> <li>value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>details string, The details link to get more information about the script.</li> <li>runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements:



	<ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).

sql	string, The raw SQL query for the script.
expandedArguments	list, Expanded arguments for use in injecting into different environments.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.
codePreview	string, The code that this script will run with arguments inserted.
csvSettings	list, A list containing the following elements: <ul style="list-style-type: none"> <li>includeHeader boolean, Whether or not to include headers in the output data. Default: true</li> <li>compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip</li> <li>columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma</li> <li>unquoted boolean, Whether or not to quote fields. Default: false</li> <li>forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false</li> <li>filenamePrefix string, A user specified filename prefix for the output file to have. Default: null</li> <li>maxFileSize integer, The max file size, in MB, created files will be. Only available when force_multifile is true.</li> </ul>

---

scripts\_post\_sql\_clone

*Clone this SQL script*

---

## Description

Clone this SQL script

## Usage

```
scripts_post_sql_clone(
  id,
  clone_schedule = NULL,
  clone_triggers = NULL,
  clone_notifications = NULL
)
```

## Arguments

id integer required. The ID for the script.

clone\_schedule boolean optional. If true, also copy the schedule to the new script.

clone\_triggers boolean optional. If true, also copy the triggers to the new script.

clone\_notifications boolean optional. If true, also copy the notifications to the new script.

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.

timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
sql	string, The raw SQL query for the script.
expandedArguments	list, Expanded arguments for use in injecting into different environments.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.
codePreview	string, The code that this script will run with arguments inserted.
csvSettings	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• includeHeader boolean, Whether or not to include headers in the output data. Default: true</li> <li>• compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip</li> <li>• columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma</li> <li>• unquoted boolean, Whether or not to quote fields. Default: false</li> <li>• forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false</li> <li>• filenamePrefix string, A user specified filename prefix for the output file to have. Default: null</li> <li>• maxFileSize integer, The max file size, in MB, created files will be. Only available when force_multifile is true.</li> </ul>

---

scripts\_post\_sql\_git\_commits

*Commit and push a new version of the file*

---

## Description

Commit and push a new version of the file

**Usage**

```
scripts_post_sql_git_commits(id, content, message, file_hash)
```

**Arguments**

id	integer required. The ID of the file.
content	string required. The contents to commit to the file.
message	string required. A commit message describing the changes being made.
file_hash	string required. The full SHA of the file being replaced.

**Value**

A list containing the following elements:

content	string, The file's contents.
type	string, The file's type.
size	integer, The file's size.
fileHash	string, The SHA of the file.

---

scripts\_post\_sql\_runs *Start a run*

---

**Description**

Start a run

**Usage**

```
scripts_post_sql_runs(id)
```

**Arguments**

id	integer required. The ID of the sql.
----	--------------------------------------

**Value**

A list containing the following elements:

id	integer, The ID of this run.
sqlId	integer, The ID of this sql.
state	string, The state of this run.
isCancelRequested	boolean, True if run cancel requested, else false.
startedAt	string, The time the last run started.
finishedAt	string, The time that this run finished.

error	string, The error message for this run, if present.
output	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• outputName string, The name of the output file.</li> <li>• fileId integer, The unique ID of the output file.</li> <li>• path string, The temporary link to download this output file, valid for 36 hours.</li> </ul>

---

scripts\_put\_containers

*Edit a container*

---

## Description

Edit a container

## Usage

```
scripts_put_containers(
    id,
    required_resources,
    docker_image_name,
    name = NULL,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    repo_http_uri = NULL,
    repo_ref = NULL,
    remote_host_credential_id = NULL,
    git_credential_id = NULL,
    docker_command = NULL,
    docker_image_tag = NULL,
    instance_type = NULL,
    cancel_timeout = NULL,
    time_zone = NULL,
    target_project_id = NULL
)
```

## Arguments

**id** integer required. The ID for the script.

**required\_resources** list required. A list containing the following elements:

- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
- memory integer, The amount of RAM to allocate for the container (in MB).
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.
- wholeInstance boolean, Whether or not to use the entire instance. If true, cpu, memory, and disk space are not required and will be set to an instance's max.

docker_image_name	string required. The name of the docker image to pull from DockerHub.
name	string optional. The name of the container.
parent_id	integer optional. The ID of the parent job that will trigger this script
user_context	string optional. "runner" or "author", who to execute the script as when run as a template.
params	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>
arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list optional. A list containing the following elements:



- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

repo_http_uri	string optional. The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.
repo_ref	string optional. The tag or branch of the github repo to clone into the container.
remote_host_credential_id	integer optional. The id of the database credentials to pass into the environment of the container.
git_credential_id	integer optional. The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you've submitted will be used. Unnecessary if no git repo is specified or the git repo is public.
docker_command	string optional. The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image's ENTRYPOINT/CMD.
docker_image_tag	string optional. The tag of the docker image to pull from DockerHub.
instance_type	string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancel_timeout	integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
time_zone	string optional. The time zone of this script.
target_project_id	integer optional. Target project to which script outputs will be added.

**Value**

A list containing the following elements:

id                    integer, The ID for the script.

name	string, The name of the container.
type	string, The type of the script (e.g Container)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
templateDependentsCount	integer, How many other scripts use this one as a template.

publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template script.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"><li>• details string, The details link to get more information about the script.</li><li>• runs string, The runs link to get the run information list for this script.</li></ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"><li>• scheduled boolean, If the item is scheduled.</li><li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li><li>• scheduledHours array, Hours of the day it is scheduled on.</li><li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li><li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li></ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"><li>• urls array, URLs to receive a POST request at job completion</li><li>• successEmailSubject string, Custom subject line for success e-mail.</li><li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li><li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li><li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li><li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li><li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li><li>• successOn boolean, If success email notifications are on.</li><li>• failureOn boolean, If failure email notifications are on.</li></ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
requiredResources	list, A list containing the following elements: <ul style="list-style-type: none"><li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.</li></ul>

- memory integer, The amount of RAM to allocate for the container (in MB).
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

repoHttpUri	string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.
repoRef	string, The tag or branch of the github repo to clone into the container.
remoteHostCredentialId	integer, The id of the database credentials to pass into the environment of the container.
gitCredentialId	integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you've submitted will be used. Unnecessary if no git repo is specified or the git repo is public.
dockerCommand	string, The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image's ENTRYPOINT/CMD.
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
timeZone	string, The time zone of this script.
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
targetProjectId	integer, Target project to which script outputs will be added.

---

 scripts\_put\_containers\_archive

*Update the archive status of this object*


---

**Description**

Update the archive status of this object

**Usage**

```
scripts_put_containers_archive(id, status)
```

**Arguments**

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the container.
type	string, The type of the script (e.g Container)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> </ul>

- label string, The label to present to users when asking them for the value.
- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi\_line\_string, integer, float, bool, file, table, database, credential\_aws, credential\_redshift, or credential\_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

templateDependentsCount integer, How many other scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template script.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:

- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:

- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.

	<ul style="list-style-type: none"> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
requiredResources	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.</li> <li>• memory integer, The amount of RAM to allocate for the container (in MB).</li> <li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li> </ul>
repoHttpUri	string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.
repoRef	string, The tag or branch of the github repo to clone into the container.
remoteHostCredentialId	integer, The id of the database credentials to pass into the environment of the container.
gitCredentialId	integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you've submitted will be used. Unnecessary if no git repo is specified or the git repo is public.
dockerCommand	string, The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image's ENTRYPOINT/CMD.
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

lastRun	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer,</li><li>• state string,</li><li>• createdAt string, The time that the run was queued.</li><li>• startedAt string, The time that the run started.</li><li>• finishedAt string, The time that the run completed.</li><li>• error string, The error message for this run, if present.</li></ul>
timeZone	string, The time zone of this script.
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
targetProjectId	integer, Target project to which script outputs will be added.

---

scripts\_put\_containers\_projects

*Add a Container Script to a project*

---

### **Description**

Add a Container Script to a project

### **Usage**

```
scripts_put_containers_projects(id, project_id)
```

### **Arguments**

id	integer required. The ID of the Container Script.
project_id	integer required. The ID of the project.

### **Value**

An empty HTTP response



---

scripts\_put\_containers\_shares\_groups  
*Set the permissions groups has on this object*

---

**Description**

Set the permissions groups has on this object

**Usage**

```
scripts_put_containers_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares  
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts\_put\_containers\_shares\_users  
*Set the permissions users have on this object*

---

### Description

Set the permissions users have on this object

### Usage

```
scripts_put_containers_shares_users(  
  id,  
  user_ids,  
  permission_level,  
  share_email_body = NULL,  
  send_shared_email = NULL  
)
```

### Arguments

id integer required. The ID of the resource that is shared.  
user\_ids array required. An array of one or more user IDs.  
permission\_level string required. Options are: "read", "write", or "manage".  
share\_email\_body string optional. Custom body text for e-mail sent on a share.  
send\_shared\_email boolean optional. Send email to the recipients of a share.

### Value

A list containing the following elements:

readers list, A list containing the following elements:

- users array,
- groups array,

writers list, A list containing the following elements:

- users array,
- groups array,

owners list, A list containing the following elements:

- users array,

- groups array,
- totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts\_put\_custom      *Replace all attributes of this Custom Script*

---

### Description

Replace all attributes of this Custom Script

### Usage

```
scripts_put_custom(
  id,
  name = NULL,
  parent_id = NULL,
  arguments = NULL,
  remote_host_id = NULL,
  credential_id = NULL,
  schedule = NULL,
  notifications = NULL,
  time_zone = NULL,
  target_project_id = NULL
)
```

### Arguments

- |                |  |
|----------------|--|
| id             | integer required. The ID for the script.   |
| name           | string optional. The name of the script.   |
| parent_id      | integer optional. The ID of the parent job that will trigger this script   |
| arguments      | list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.   |
| remote_host_id | integer optional. The remote host ID that this script will connect to.   |
| credential_id  | integer optional. The credential that this script will use.  |
| schedule       | list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> </ul> |

	<ul style="list-style-type: none"> <li>• <code>scheduledRunsPerHour</code> integer, Alternative to <code>scheduled minutes</code>, number of times to run per hour.</li> </ul>
<code>notifications</code>	<p>list optional. A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• <code>urls</code> array, URLs to receive a POST request at job completion</li> <li>• <code>successEmailSubject</code> string, Custom subject line for success e-mail.</li> <li>• <code>successEmailBody</code> string, Custom body text for success e-mail, written in Markdown.</li> <li>• <code>successEmailAddresses</code> array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• <code>successEmailFromName</code> string, Name from which success emails are sent; defaults to "Civis."</li> <li>• <code>successEmailReplyTo</code> string, Address for replies to success emails; defaults to the author of the job.</li> <li>• <code>failureEmailAddresses</code> array, Addresses to notify by e-mail when the job fails.</li> <li>• <code>stallWarningMinutes</code> integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• <code>successOn</code> boolean, If success email notifications are on.</li> <li>• <code>failureOn</code> boolean, If failure email notifications are on.</li> </ul>
<code>time_zone</code>	string optional. The time zone of this script.
<code>target_project_id</code>	integer optional. Target project to which script outputs will be added.

**Value**

A list containing the following elements:

<code>id</code>	integer, The ID for the script.
<code>name</code>	string, The name of the script.
<code>type</code>	string, The type of the script (e.g Custom)
<code>createdAt</code>	string, The time this script was created.
<code>updatedAt</code>	string, The time the script was last updated.
<code>author</code>	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• <code>id</code> integer, The ID of this user.</li> <li>• <code>name</code> string, This user's name.</li> <li>• <code>username</code> string, This user's username.</li> <li>• <code>initials</code> string, This user's initials.</li> <li>• <code>online</code> boolean, Whether this user is online.</li> </ul>
<code>state</code>	string, The status of the script's last run.
<code>finishedAt</code>	string, The time that the script's last run finished.
<code>category</code>	string,
<code>projects</code>	array, An array containing the following fields:

	<ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template script.
uiReportUrl	integer, The url of the custom HTML.
uiReportId	integer, The id of the report with the custom HTML.
uiReportProvideAPIKey	boolean, Whether the ui report requests an API Key from the report viewer.
templateScriptName	string, The name of the template script.
templateNote	string, The template's note.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.
codePreview	string, The code that this script will run with arguments inserted.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> </ul>

	<ul style="list-style-type: none"> <li>• <code>scheduledRunsPerHour</code> integer, Alternative to <code>scheduled minutes</code>, number of times to run per hour.</li> </ul>
<code>notifications</code>	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• <code>urls</code> array, URLs to receive a POST request at job completion</li> <li>• <code>successEmailSubject</code> string, Custom subject line for success e-mail.</li> <li>• <code>successEmailBody</code> string, Custom body text for success e-mail, written in Markdown.</li> <li>• <code>successEmailAddresses</code> array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• <code>successEmailFromName</code> string, Name from which success emails are sent; defaults to "Civis."</li> <li>• <code>successEmailReplyTo</code> string, Address for replies to success emails; defaults to the author of the job.</li> <li>• <code>failureEmailAddresses</code> array, Addresses to notify by e-mail when the job fails.</li> <li>• <code>stallWarningMinutes</code> integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• <code>successOn</code> boolean, If success email notifications are on.</li> <li>• <code>failureOn</code> boolean, If failure email notifications are on.</li> </ul>
<code>runningAs</code>	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• <code>id</code> integer, The ID of this user.</li> <li>• <code>name</code> string, This user's name.</li> <li>• <code>username</code> string, This user's username.</li> <li>• <code>initials</code> string, This user's initials.</li> <li>• <code>online</code> boolean, Whether this user is online.</li> </ul>
<code>timeZone</code>	string, The time zone of this script.
<code>lastRun</code>	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• <code>id</code> integer,</li> <li>• <code>state</code> string,</li> <li>• <code>createdAt</code> string, The time that the run was queued.</li> <li>• <code>startedAt</code> string, The time that the run started.</li> <li>• <code>finishedAt</code> string, The time that the run completed.</li> <li>• <code>error</code> string, The error message for this run, if present.</li> </ul>
<code>hidden</code>	boolean, The hidden status of the item.
<code>archived</code>	string, The archival status of the requested item(s).
<code>targetProjectId</code>	integer, Target project to which script outputs will be added.
<code>lastSuccessfulRun</code>	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• <code>id</code> integer,</li> <li>• <code>state</code> string,</li> <li>• <code>createdAt</code> string, The time that the run was queued.</li> </ul>

- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

---

 scripts\_put\_custom\_archive

*Update the archive status of this object*


---

### Description

Update the archive status of this object

### Usage

```
scripts_put_custom_archive(id, status)
```

### Arguments

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

### Value

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g Custom)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string,
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script

params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template script.
uiReportUrl	integer, The url of the custom HTML.
uiReportId	integer, The id of the report with the custom HTML.
uiReportProvideAPIKey	boolean, Whether the ui report requests an API Key from the report viewer.
templateScriptName	string, The name of the template script.
templateNote	string, The template's note.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.
codePreview	string, The code that this script will run with arguments inserted.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements:



	<ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
timeZone	string, The time zone of this script.
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
archived	string, The archival status of the requested item(s).
targetProjectId	integer, Target project to which script outputs will be added.
lastSuccessfulRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>

---

`scripts_put_custom_projects`*Add a Custom Script to a project*

---

**Description**

Add a Custom Script to a project

**Usage**

```
scripts_put_custom_projects(id, project_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the Custom Script.
<code>project_id</code>	integer required. The ID of the project.

**Value**

An empty HTTP response

---

`scripts_put_custom_shares_groups`*Set the permissions groups has on this object*

---

**Description**

Set the permissions groups has on this object

**Usage**

```
scripts_put_custom_shares_groups(  
    id,  
    group_ids,  
    permission_level,  
    share_email_body = NULL,  
    send_shared_email = NULL  
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts\_put\_custom\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
scripts_put_custom_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts\_put\_javascript

*Replace all attributes of this JavaScript Script*

---

**Description**

Replace all attributes of this JavaScript Script

**Usage**

```

scripts_put_javascript(
    id,
    name,
    source,
    remote_host_id,
    credential_id,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    target_project_id = NULL
)

```

**Arguments**

id	integer required. The ID for the script.
name	string required. The name of the script.
source	string required. The body/text of the script.
remote_host_id	integer required. The remote host ID that this script will connect to.
credential_id	integer required. The credential that this script will use.
parent_id	integer optional. The ID of the parent job that will trigger this script
user_context	string optional. "runner" or "author", who to execute the script as when run as a template.
params	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>

arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
next_run_at	string optional. The time of the next scheduled run.
time_zone	string optional. The time zone of this script.
target_project_id	integer optional. Target project to which script outputs will be added.

## Value

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> </ul>

	<ul style="list-style-type: none"> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>

schedule	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"><li>• scheduled boolean, If the item is scheduled.</li><li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li><li>• scheduledHours array, Hours of the day it is scheduled on.</li><li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li><li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li></ul>
notifications	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"><li>• urls array, URLs to receive a POST request at job completion</li><li>• successEmailSubject string, Custom subject line for success e-mail.</li><li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li><li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li><li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li><li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li><li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li><li>• successOn boolean, If success email notifications are on.</li><li>• failureOn boolean, If failure email notifications are on.</li></ul>
runningAs	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"><li>• id integer,</li><li>• state string,</li><li>• createdAt string, The time that the run was queued.</li><li>• startedAt string, The time that the run started.</li><li>• finishedAt string, The time that the run completed.</li><li>• error string, The error message for this run, if present.</li></ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.



archived	string, The archival status of the requested item(s).
source	string, The body/text of the script.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.

---

scripts\_put\_javascript\_archive

*Update the archive status of this object*

---

### Description

Update the archive status of this object

### Usage

```
scripts_put_javascript_archive(id, status)
```

### Arguments

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

### Value

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> </ul>

	<ul style="list-style-type: none"> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements:

	<ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
source	string, The body/text of the script.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.

---

 scripts\_put\_javascript\_git

*Attach an item to a file in a git repo*


---

### Description

Attach an item to a file in a git repo

### Usage

```
scripts_put_javascript_git(
  id,
  git_ref = NULL,
  git_branch = NULL,
  git_path = NULL,
  git_repo_url = NULL,
  pull_from_git = NULL
)
```

### Arguments

id	integer required. The ID of the file.
git_ref	string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
git_branch	string optional. The git branch that the file is on.
git_path	string optional. The path of the file in the repository.
git_repo_url	string optional. The URL of the git repository.
pull_from_git	boolean optional. Automatically pull latest commit from git. Only works for scripts.

### Value

A list containing the following elements:

gitRef	string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
gitBranch	string, The git branch that the file is on.
gitPath	string, The path of the file in the repository.
gitRepo	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID for this git repository.</li> <li>• repoUrl string, The URL for this git repository.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> </ul>
pullFromGit	boolean, Automatically pull latest commit from git. Only works for scripts.

---

`scripts_put_javascript_projects`*Add a JavaScript Script to a project*

---

**Description**

Add a JavaScript Script to a project

**Usage**

```
scripts_put_javascript_projects(id, project_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the JavaScript Script.
<code>project_id</code>	integer required. The ID of the project.

**Value**

An empty HTTP response

---

`scripts_put_javascript_shares_groups`*Set the permissions groups has on this object*

---

**Description**

Set the permissions groups has on this object

**Usage**

```
scripts_put_javascript_shares_groups(  
    id,  
    group_ids,  
    permission_level,  
    share_email_body = NULL,  
    send_shared_email = NULL  
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts\_put\_javascript\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
scripts_put_javascript_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts\_put\_python3    *Replace all attributes of this Python Script*

---

**Description**

Replace all attributes of this Python Script

**Usage**

```

scripts_put_python3(
    id,
    name,
    source,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    target_project_id = NULL,
    required_resources = NULL,
    instance_type = NULL,
    cancel_timeout = NULL,
    docker_image_tag = NULL
)

```

**Arguments**

<code>id</code>	integer required. The ID for the script.
<code>name</code>	string required. The name of the script.
<code>source</code>	string required. The body/text of the script.
<code>parent_id</code>	integer optional. The ID of the parent job that will trigger this script
<code>user_context</code>	string optional. "runner" or "author", who to execute the script as when run as a template.
<code>params</code>	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>



arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"><li>• scheduled boolean, If the item is scheduled.</li><li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li><li>• scheduledHours array, Hours of the day it is scheduled on.</li><li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li><li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li></ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"><li>• urls array, URLs to receive a POST request at job completion</li><li>• successEmailSubject string, Custom subject line for success e-mail.</li><li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li><li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li><li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li><li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li><li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li><li>• successOn boolean, If success email notifications are on.</li><li>• failureOn boolean, If failure email notifications are on.</li></ul>
next_run_at	string optional. The time of the next scheduled run.
time_zone	string optional. The time zone of this script.
target_project_id	integer optional. Target project to which script outputs will be added.
required_resources	list optional. A list containing the following elements: <ul style="list-style-type: none"><li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</li><li>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</li><li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li></ul>
instance_type	string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

cancel_timeout	integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
docker_image_tag	string optional. The tag of the docker image to pull from DockerHub.

## Value

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> </ul>

- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:

- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:

- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.

	<ul style="list-style-type: none"> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
requiredResources	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</li> <li>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</li> <li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li> </ul>
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source	string, The body/text of the script.
cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.

---

scripts\_put\_python3\_archive  
*Update the archive status of this object*

---

### Description

Update the archive status of this object

### Usage

```
scripts_put_python3_archive(id, status)
```

### Arguments

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

### Value

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> </ul>

- label string, The label to present to users when asking them for the value.
- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi\_line\_string, integer, float, bool, file, table, database, credential\_aws, credential\_redshift, or credential\_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:

- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:

- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.

	<ul style="list-style-type: none"> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
requiredResources	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</li> <li>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</li> <li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li> </ul>
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source	string, The body/text of the script.

cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.

---

scripts\_put\_python3\_git

*Attach an item to a file in a git repo*

---

## Description

Attach an item to a file in a git repo

## Usage

```
scripts_put_python3_git(
    id,
    git_ref = NULL,
    git_branch = NULL,
    git_path = NULL,
    git_repo_url = NULL,
    pull_from_git = NULL
)
```

## Arguments

id	integer required. The ID of the file.
git_ref	string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
git_branch	string optional. The git branch that the file is on.
git_path	string optional. The path of the file in the repository.
git_repo_url	string optional. The URL of the git repository.
pull_from_git	boolean optional. Automatically pull latest commit from git. Only works for scripts.

## Value

A list containing the following elements:

gitRef	string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
gitBranch	string, The git branch that the file is on.
gitPath	string, The path of the file in the repository.
gitRepo	list, A list containing the following elements: <ul style="list-style-type: none"> <li>id integer, The ID for this git repository.</li> </ul>



- repoUrl string, The URL for this git repository.
  - createdAt string,
  - updatedAt string,
- pullFromGit      boolean, Automatically pull latest commit from git. Only works for scripts.

---

scripts\_put\_python3\_projects

*Add a Python Script to a project*

---

### Description

Add a Python Script to a project

### Usage

```
scripts_put_python3_projects(id, project_id)
```

### Arguments

id                    integer required. The ID of the Python Script.  
 project\_id          integer required. The ID of the project.

### Value

An empty HTTP response

---

scripts\_put\_python3\_shares\_groups

*Set the permissions groups has on this object*

---

### Description

Set the permissions groups has on this object

### Usage

```
scripts_put_python3_shares_groups(  

  id,  

  group_ids,  

  permission_level,  

  share_email_body = NULL,  

  send_shared_email = NULL  

)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts\_put\_python3\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
scripts_put_python3_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts\_put\_r

*Replace all attributes of this R Script*


---

**Description**

Replace all attributes of this R Script

**Usage**

```

scripts_put_r(
  id,
  name,
  source,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  target_project_id = NULL,
  required_resources = NULL,
  instance_type = NULL,
  cancel_timeout = NULL,
  docker_image_tag = NULL
)

```

**Arguments**

id	integer required. The ID for the script.
name	string required. The name of the script.
source	string required. The body/text of the script.
parent_id	integer optional. The ID of the parent job that will trigger this script
user_context	string optional. "runner" or "author", who to execute the script as when run as a template.
params	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>

arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"><li>• scheduled boolean, If the item is scheduled.</li><li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li><li>• scheduledHours array, Hours of the day it is scheduled on.</li><li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li><li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li></ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"><li>• urls array, URLs to receive a POST request at job completion</li><li>• successEmailSubject string, Custom subject line for success e-mail.</li><li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li><li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li><li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li><li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li><li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li><li>• successOn boolean, If success email notifications are on.</li><li>• failureOn boolean, If failure email notifications are on.</li></ul>
next_run_at	string optional. The time of the next scheduled run.
time_zone	string optional. The time zone of this script.
target_project_id	integer optional. Target project to which script outputs will be added.
required_resources	list optional. A list containing the following elements: <ul style="list-style-type: none"><li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</li><li>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</li><li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li></ul>
instance_type	string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

cancel_timeout	integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
docker_image_tag	string optional. The tag of the docker image to pull from DockerHub.

## Value

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> </ul>

- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'

arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> </ul>

	<ul style="list-style-type: none"> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
requiredResources	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</li> <li>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</li> <li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li> </ul>
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source	string, The body/text of the script.
cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.



---

scripts\_put\_r\_archive *Update the archive status of this object*

---

**Description**

Update the archive status of this object

**Usage**

```
scripts_put_r_archive(id, status)
```

**Arguments**

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> </ul>

- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi\_line\_string, integer, float, bool, file, table, database, credential\_aws, credential\_redshift, or credential\_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'

arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> </ul>

	<ul style="list-style-type: none"> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
requiredResources	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.</li> <li>• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.</li> <li>• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.</li> </ul>
instanceType	string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source	string, The body/text of the script.

cancelTimeout	integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
dockerImageTag	string, The tag of the docker image to pull from DockerHub.

---

scripts\_put\_r\_git      *Attach an item to a file in a git repo*

---

### Description

Attach an item to a file in a git repo

### Usage

```
scripts_put_r_git(
  id,
  git_ref = NULL,
  git_branch = NULL,
  git_path = NULL,
  git_repo_url = NULL,
  pull_from_git = NULL
)
```

### Arguments

id	integer required. The ID of the file.
git_ref	string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
git_branch	string optional. The git branch that the file is on.
git_path	string optional. The path of the file in the repository.
git_repo_url	string optional. The URL of the git repository.
pull_from_git	boolean optional. Automatically pull latest commit from git. Only works for scripts.

### Value

A list containing the following elements:

gitRef	string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
gitBranch	string, The git branch that the file is on.
gitPath	string, The path of the file in the repository.
gitRepo	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID for this git repository.</li> </ul>

- repoUrl string, The URL for this git repository.
  - createdAt string,
  - updatedAt string,
- pullFromGit      boolean, Automatically pull latest commit from git. Only works for scripts.

---

scripts\_put\_r\_projects

*Add an R Script to a project*

---

### Description

Add an R Script to a project

### Usage

```
scripts_put_r_projects(id, project_id)
```

### Arguments

id                    integer required. The ID of the R Script.  
 project\_id          integer required. The ID of the project.

### Value

An empty HTTP response

---

scripts\_put\_r\_shares\_groups

*Set the permissions groups has on this object*

---

### Description

Set the permissions groups has on this object

### Usage

```
scripts_put_r_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts\_put\_r\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
scripts_put_r_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts_put_sql	<i>Replace all attributes of this SQL script</i>
-----------------	--

---

**Description**

Replace all attributes of this SQL script

**Usage**

```

scripts_put_sql(
  id,
  name,
  sql,
  remote_host_id,
  credential_id,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  target_project_id = NULL,
  csv_settings = NULL
)

```

**Arguments**

<code>id</code>	integer required. The ID for the script.
<code>name</code>	string required. The name of the script.
<code>sql</code>	string required. The raw SQL query for the script.
<code>remote_host_id</code>	integer required. The remote host ID that this script will connect to.
<code>credential_id</code>	integer required. The credential that this script will use.
<code>parent_id</code>	integer optional. The ID of the parent job that will trigger this script
<code>user_context</code>	string optional. "runner" or "author", who to execute the script as when run as a template.
<code>params</code>	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• <code>name</code> string, The variable's name as used within your code.</li> <li>• <code>label</code> string, The label to present to users when asking them for the value.</li> <li>• <code>description</code> string, A short sentence or fragment describing this parameter to the end user.</li> <li>• <code>type</code> string, The type of parameter. Valid options: <code>string</code>, <code>multi_line_string</code>, <code>integer</code>, <code>float</code>, <code>bool</code>, <code>file</code>, <code>table</code>, <code>database</code>, <code>credential_aws</code>, <code>credential_redshift</code>, or <code>credential_custom</code></li> <li>• <code>required</code> boolean, Whether this param is required.</li> <li>• <code>value</code> string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• <code>default</code> string, If an argument for this parameter is not defined, it will use this default value. Use <code>true</code>, <code>True</code>, <code>t</code>, <code>y</code>, <code>yes</code>, or <code>1</code> for true bool's or <code>false</code>, <code>False</code>, <code>f</code>, <code>n</code>, <code>no</code>, or <code>0</code> for false bool's. Cannot be used for parameters that are required or a credential type.</li> </ul>



	<ul style="list-style-type: none"> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>
arguments	list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
next_run_at	string optional. The time of the next scheduled run.
time_zone	string optional. The time zone of this script.
target_project_id	integer optional. Target project to which script outputs will be added.
csv_settings	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• includeHeader boolean, Whether or not to include headers in the output data. Default: true</li> <li>• compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip</li> <li>• columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma</li> <li>• unquoted boolean, Whether or not to quote fields. Default: false</li> <li>• forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false</li> </ul>

- filenamePrefix string, A user specified filename prefix for the output file to have. Default: null
- maxFileSize integer, The max file size, in MB, created files will be. Only available when force\_multifile is true.

## Value

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> </ul>

	<ul style="list-style-type: none"> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> </ul>

	<ul style="list-style-type: none"> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
sql	string, The raw SQL query for the script.
expandedArguments	list, Expanded arguments for use in injecting into different environments.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.
codePreview	string, The code that this script will run with arguments inserted.
csvSettings	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• includeHeader boolean, Whether or not to include headers in the output data. Default: true</li> <li>• compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip</li> <li>• columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma</li> <li>• unquoted boolean, Whether or not to quote fields. Default: false</li> <li>• forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false</li> <li>• filenamePrefix string, A user specified filename prefix for the output file to have. Default: null</li> <li>• maxFileSize integer, The max file size, in MB, created files will be. Only available when force_multifile is true.</li> </ul>

---

 scripts\_put\_sql\_archive

*Update the archive status of this object*


---

**Description**

Update the archive status of this object

**Usage**

```
scripts_put_sql_archive(id, status)
```

**Arguments**

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

id	integer, The ID for the script.
name	string, The name of the script.
type	string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt	string, The time this script was created.
updatedAt	string, The time the script was last updated.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The status of the script's last run.
finishedAt	string, The time that the script's last run finished.
category	string, The category of the script.
projects	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID for the project.</li> <li>• name string, The name of the project.</li> </ul>
parentId	integer, The ID of the parent job that will trigger this script
userContext	string, "runner" or "author", who to execute the script as when run as a template.
params	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The variable's name as used within your code.</li> </ul>

	<ul style="list-style-type: none"> <li>• label string, The label to present to users when asking them for the value.</li> <li>• description string, A short sentence or fragment describing this parameter to the end user.</li> <li>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</li> <li>• required boolean, Whether this param is required.</li> <li>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</li> <li>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.</li> <li>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import'</li> </ul>
arguments	list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate	boolean, Whether others scripts use this one as a template.
publishedAsTemplateId	integer, The ID of the template that this script is backing.
fromTemplateId	integer, The ID of the template this script uses, if any.
templateDependentsCount	integer, How many other scripts use this one as a template.
templateScriptName	string, The name of the template script.
links	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• details string, The details link to get more information about the script.</li> <li>• runs string, The runs link to get the run information list for this script.</li> </ul>
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> </ul>

	<ul style="list-style-type: none"> <li>• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."</li> <li>• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on.</li> <li>• failureOn boolean, If failure email notifications are on.</li> </ul>
runningAs	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
nextRunAt	string, The time of the next scheduled run.
timeZone	string, The time zone of this script.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
hidden	boolean, The hidden status of the item.
targetProjectId	integer, Target project to which script outputs will be added.
archived	string, The archival status of the requested item(s).
sql	string, The raw SQL query for the script.
expandedArguments	list, Expanded arguments for use in injecting into different environments.
remoteHostId	integer, The remote host ID that this script will connect to.
credentialId	integer, The credential that this script will use.
codePreview	string, The code that this script will run with arguments inserted.
csvSettings	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• includeHeader boolean, Whether or not to include headers in the output data. Default: true</li> <li>• compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip</li> <li>• columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma</li> </ul>

- unquoted boolean, Whether or not to quote fields. Default: false
- forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false
- filenamePrefix string, A user specified filename prefix for the output file to have. Default: null
- maxFileSize integer, The max file size, in MB, created files will be. Only available when force\_multifile is true.

---

scripts\_put\_sql\_git     *Attach an item to a file in a git repo*

---

### Description

Attach an item to a file in a git repo

### Usage

```
scripts_put_sql_git(
    id,
    git_ref = NULL,
    git_branch = NULL,
    git_path = NULL,
    git_repo_url = NULL,
    pull_from_git = NULL
)
```

### Arguments

id	integer required. The ID of the file.
git_ref	string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
git_branch	string optional. The git branch that the file is on.
git_path	string optional. The path of the file in the repository.
git_repo_url	string optional. The URL of the git repository.
pull_from_git	boolean optional. Automatically pull latest commit from git. Only works for scripts.

### Value

A list containing the following elements:

gitRef	string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
gitBranch	string, The git branch that the file is on.
gitPath	string, The path of the file in the repository.



gitRepo	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID for this git repository.</li> <li>• repoUrl string, The URL for this git repository.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> </ul>
pullFromGit	boolean, Automatically pull latest commit from git. Only works for scripts.

---

scripts\_put\_sql\_projects

*Add a SQL script to a project*

---

### Description

Add a SQL script to a project

### Usage

```
scripts_put_sql_projects(id, project_id)
```

### Arguments

id	integer required. The ID of the SQL script.
project_id	integer required. The ID of the project.

### Value

An empty HTTP response

---

scripts\_put\_sql\_shares\_groups

*Set the permissions groups has on this object*

---

### Description

Set the permissions groups has on this object

### Usage

```
scripts_put_sql_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts\_put\_sql\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
scripts_put_sql_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

search_list	<i>Perform a search</i>
-------------	-------------------------

---

**Description**

Perform a search

**Usage**

```

search_list(
  query = NULL,
  type = NULL,
  offset = NULL,
  order = NULL,
  owner = NULL,
  limit = NULL,
  archived = NULL,
  last_run_state = NULL
)

```

**Arguments**

query	string optional. The search query.
type	string optional. The type for the search. It accepts a comma-separated list. Valid arguments are listed on the "GET /search/types" endpoint.
offset	integer optional. The offset for the search results.
order	string optional. The field on which to order the result set.
owner	string optional. The owner for the search.
limit	integer optional. Defaults to 10. Maximum allowed is 1000.
archived	string optional. If specified, return only results with the chosen archived status; either 'true', 'false', or 'all'. Defaults to 'false'.
last_run_state	string optional. The last run state of the job being searched for; either: 'queued', 'running', 'succeeded', 'failed', or 'cancelled'.

**Value**

An array containing the following fields:

totalResults	integer, The number of items matching the search query.
aggregations	list, Aggregations by owner and type for the search results.
results	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• score number, The relevance score from the search request.</li> <li>• type string, The type of the item.</li> <li>• id integer, The ID of the item.</li> <li>• name string, The name of the item.</li> <li>• typeName string, The verbose name of the type.</li> <li>• updatedAt string, The time the item was last updated.</li> <li>• owner string, The owner of the item.</li> <li>• useCount integer, The use count of the item, if the item is a template.</li> <li>• lastRunId integer, The last run id of the item, if the item is a job.</li> <li>• lastRunState string, The last run state of the item, if the item is a job.</li> <li>• lastRunStart string, The last run start time of the item, if the item is a job.</li> </ul>

- lastRunFinish string, The last run finish time of the item, if the item is a job.
- public boolean, The flag that indicates a template is available to all users.
- lastRunException string, The exception of the item after the last run, if the item is a job.

---

search\_list\_types      *List available search types*

---

**Description**

List available search types

**Usage**

```
search_list_types()
```

**Value**

An array containing the following fields:

type                  string, The name of the item type.

---

services\_delete      *Archive a Service (deprecated, use archiving endpoints instead)*

---

**Description**

Archive a Service (deprecated, use archiving endpoints instead)

**Usage**

```
services_delete(id)
```

**Arguments**

id                    integer required.

**Value**

An empty HTTP response

services\_delete\_deployments

*Delete a Service deployment*

---

**Description**

Delete a Service deployment

**Usage**

```
services_delete_deployments(service_id, deployment_id)
```

**Arguments**

service\_id      integer required. The ID of the owning Service  
deployment\_id   integer required. The ID for this deployment

**Value**

An empty HTTP response

---

services\_delete\_projects

*Remove a Service from a project*

---

**Description**

Remove a Service from a project

**Usage**

```
services_delete_projects(id, project_id)
```

**Arguments**

id                      integer required. The ID of the Service.  
project\_id            integer required. The ID of the project.

**Value**

An empty HTTP response

---

`services_delete_shares_groups`*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
services_delete_shares_groups(id, group_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>group_id</code>	integer required. The ID of the group.

**Value**

An empty HTTP response

---

`services_delete_shares_users`*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
services_delete_shares_users(id, user_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>user_id</code>	integer required. The ID of the user.

**Value**

An empty HTTP response

---

 services\_delete\_tokens

*Revoke a token by id*


---

**Description**

Revoke a token by id

**Usage**

```
services_delete_tokens(id, token_id)
```

**Arguments**

id	integer required. The ID of the service.
token_id	integer required. The ID of the token.

**Value**

An empty HTTP response

---

services\_get

*Get a Service*


---

**Description**

Get a Service

**Usage**

```
services_get(id)
```

**Arguments**

id	integer required.
----	-------------------

**Value**

A list containing the following elements:

id	integer, The ID for this Service.
name	string, The name of this Service.
description	string, The description of this Service.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> </ul>



	<ul style="list-style-type: none"> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
type	string, The type of this Service
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.</li> <li>• recurrences array, List of day-hour combinations this item is scheduled for</li> </ul>
timeZone	string,
replicas	integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
maxReplicas	integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instanceType	string, The EC2 instance type to deploy to.
memory	integer, The amount of memory allocated to each replica of the Service.
cpu	integer, The amount of cpu allocated to each replica of the the Service.
createdAt	string,
updatedAt	string,
credentials	array, A list of credential IDs to pass to the Service.
apiKeyId	integer, API key id of user
permissionSetId	integer, The ID of the associated permission set, if any.
gitRepoUrl	string, The url for the git repo where the Service code lives.
gitRepoRef	string, The git reference to use when pulling code from the repo.
gitPathDir	string, The path to the Service code within the git repo. If unspecified, the root directory will be used.
reportId	integer, The ID of the associated report.
currentDeployment	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• deploymentId integer, The ID for this deployment.</li> <li>• userId integer, The ID of the owner.</li> <li>• host string, Domain of the deployment.</li> <li>• name string, Name of the deployment.</li> </ul>

	<ul style="list-style-type: none"> <li>• dockerImageName string, The name of the docker image to pull from DockerHub.</li> <li>• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li> <li>• displayUrl string, A signed URL for viewing the deployed item.</li> <li>• instanceType string, The EC2 instance type requested for the deployment.</li> <li>• memory integer, The memory allocated to the deployment.</li> <li>• cpu integer, The cpu allocated to the deployment.</li> <li>• state string, The state of the deployment.</li> <li>• stateMessage string, A detailed description of the state.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> <li>• published boolean,</li> <li>• serviceId integer, The ID of owning Service</li> </ul>
previewDeployment	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• deploymentId integer, The ID for this deployment.</li> <li>• userId integer, The ID of the owner.</li> <li>• host string, Domain of the deployment.</li> <li>• name string, Name of the deployment.</li> <li>• dockerImageName string, The name of the docker image to pull from DockerHub.</li> <li>• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li> <li>• displayUrl string, A signed URL for viewing the deployed item.</li> <li>• instanceType string, The EC2 instance type requested for the deployment.</li> <li>• memory integer, The memory allocated to the deployment.</li> <li>• cpu integer, The cpu allocated to the deployment.</li> <li>• state string, The state of the deployment.</li> <li>• stateMessage string, A detailed description of the state.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> <li>• published boolean,</li> <li>• serviceId integer, The ID of owning Service</li> </ul>
currentUrl	string, The URL that the service is hosted at.
previewUrl	string, The URL that previews of the service are hosted at.
environmentVariables	list, Environment Variables to be passed into the Service.
notifications	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the service fails.</li> <li>• failureOn boolean, If failure email notifications are on</li> </ul>
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.

---

 services\_get\_deployments

*Get details about a Service deployment*


---

**Description**

Get details about a Service deployment

**Usage**

```
services_get_deployments(service_id, deployment_id)
```

**Arguments**

service\_id integer required. The ID of the owning Service  
 deployment\_id integer required. The ID for this deployment

**Value**

A list containing the following elements:

deploymentId	integer, The ID for this deployment.
userId	integer, The ID of the owner.
host	string, Domain of the deployment.
name	string, Name of the deployment.
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
displayUrl	string, A signed URL for viewing the deployed item.
instanceType	string, The EC2 instance type requested for the deployment.
memory	integer, The memory allocated to the deployment.
cpu	integer, The cpu allocated to the deployment.
state	string, The state of the deployment.
stateMessage	string, A detailed description of the state.
createdAt	string,
updatedAt	string,
published	boolean,
serviceId	integer, The ID of owning Service

---

 services\_list
 

---

*List Services***Description**

List Services

**Usage**

```

services_list(
  hidden = NULL,
  archived = NULL,
  author = NULL,
  status = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)

```

**Arguments**

hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
archived	string optional. The archival status of the requested item(s).
author	string optional. If specified, return imports from this author. It accepts a comma-separated list of author IDs.
status	string optional. If specified, returns Services with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'idle'.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The ID for this Service.
name	string, The name of this Service.
description	string, The description of this Service.

user	list, A list containing the following elements: <ul style="list-style-type: none"><li>• id integer, The ID of this user.</li><li>• name string, This user's name.</li><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
type	string, The type of this Service
createdAt	string,
updatedAt	string,
gitRepoUrl	string, The url for the git repo where the Service code lives.
gitRepoRef	string, The git reference to use when pulling code from the repo.
gitPathDir	string, The path to the Service code within the git repo. If unspecified, the root directory will be used.
currentDeployment	list, A list containing the following elements: <ul style="list-style-type: none"><li>• deploymentId integer, The ID for this deployment.</li><li>• userId integer, The ID of the owner.</li><li>• host string, Domain of the deployment.</li><li>• name string, Name of the deployment.</li><li>• dockerImageName string, The name of the docker image to pull from DockerHub.</li><li>• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li><li>• instanceType string, The EC2 instance type requested for the deployment.</li><li>• memory integer, The memory allocated to the deployment.</li><li>• cpu integer, The cpu allocated to the deployment.</li><li>• state string, The state of the deployment.</li><li>• stateMessage string, A detailed description of the state.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• published boolean,</li><li>• serviceId integer, The ID of owning Service</li></ul>
previewDeployment	list, A list containing the following elements: <ul style="list-style-type: none"><li>• deploymentId integer, The ID for this deployment.</li><li>• userId integer, The ID of the owner.</li><li>• host string, Domain of the deployment.</li><li>• name string, Name of the deployment.</li><li>• dockerImageName string, The name of the docker image to pull from DockerHub.</li><li>• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li></ul>

- instanceType string, The EC2 instance type requested for the deployment.
  - memory integer, The memory allocated to the deployment.
  - cpu integer, The cpu allocated to the deployment.
  - state string, The state of the deployment.
  - stateMessage string, A detailed description of the state.
  - createdAt string,
  - updatedAt string,
  - published boolean,
  - serviceId integer, The ID of owning Service
- archived            string, The archival status of the requested item(s).

---

services\_list\_deployments

*List deployments for a Service*

---

### Description

List deployments for a Service

### Usage

```
services_list_deployments(
    service_id,
    deployment_id = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

### Arguments

service_id	integer required. The ID of the owning Service
deployment_id	integer optional. The ID for this deployment
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

deploymentId	integer, The ID for this deployment.
userId	integer, The ID of the owner.
host	string, Domain of the deployment.
name	string, Name of the deployment.
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
instanceType	string, The EC2 instance type requested for the deployment.
memory	integer, The memory allocated to the deployment.
cpu	integer, The cpu allocated to the deployment.
state	string, The state of the deployment.
stateMessage	string, A detailed description of the state.
createdAt	string,
updatedAt	string,
published	boolean,
serviceId	integer, The ID of owning Service

---

services\_list\_deployments\_logs

*Get the logs for a Service deployment*

---

**Description**

Get the logs for a Service deployment

**Usage**

```
services_list_deployments_logs(  
    id,  
    deployment_id,  
    start_at = NULL,  
    end_at = NULL,  
    limit = NULL  
)
```

**Arguments**

id	integer required. The ID of the owning Service.
deployment_id	integer required. The ID for this deployment.
start_at	string optional. Log entries with a lower timestamp will be omitted.
end_at	string optional. Log entries with a higher timestamp will be omitted.
limit	integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

message	string, The log message.
stream	string, The stream of the log. One of "stdout", "stderr".
createdAt	string, The time the log was created.
source	string, The source of the log. One of "system", "user".

---

services\_list\_projects

*List the projects a Service belongs to*

---

**Description**

List the projects a Service belongs to

**Usage**

```
services_list_projects(id, hidden = NULL)
```

**Arguments**

id	integer required. The ID of the Service.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>id integer, The ID of this user.</li> <li>name string, This user's name.</li> <li>username string, This user's username.</li> </ul>



	<ul style="list-style-type: none"> <li>initials string, This user's initials.</li> <li>online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>id integer, The ID of this user.</li> <li>name string, This user's name.</li> <li>username string, This user's username.</li> <li>initials string, This user's initials.</li> <li>online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

services\_list\_shares *List users and groups permissioned on this object*

---

### Description

List users and groups permissioned on this object

### Usage

```
services_list_shares(id)
```

### Arguments

id integer required. The ID of the resource that is shared.

### Value

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>users array,</li> <li>groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>users array,</li> <li>groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>users array,</li> </ul>

	<ul style="list-style-type: none"> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

services\_list\_tokens *List tokens*

---

### Description

List tokens

### Usage

services\_list\_tokens(id)

### Arguments

id integer required. The ID of the service.

### Value

An array containing the following fields:

id	integer, The ID of the token.
name	string, The name of the token.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
machineToken	boolean, If true, this token is not tied to a particular user.
createdAt	string, The date and time when the token was created.

---

services_patch	<i>Update some attributes of this Service</i>
----------------	---

---

### Description

Update some attributes of this Service

### Usage

```
services_patch(
  id,
  name = NULL,
  description = NULL,
  docker_image_name = NULL,
  docker_image_tag = NULL,
  schedule = NULL,
  replicas = NULL,
  max_replicas = NULL,
  instance_type = NULL,
  memory = NULL,
  cpu = NULL,
  credentials = NULL,
  api_key_id = NULL,
  permission_set_id = NULL,
  git_repo_url = NULL,
  git_repo_ref = NULL,
  git_path_dir = NULL,
  environment_variables = NULL,
  notifications = NULL
)
```

### Arguments

id	integer required. The ID for this Service.
name	string optional. The name of this Service.
description	string optional. The description of this Service.
docker_image_name	string optional. The name of the docker image to pull from DockerHub.
docker_image_tag	string optional. The tag of the docker image to pull from DockerHub (default: latest).
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will</li> </ul>

	be on when scheduled. Always On means the deployed service will always be on.
	<ul style="list-style-type: none"> <li>recurrences array, List of day-hour combinations this item is scheduled for</li> </ul>
replicas	integer optional. The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
max_replicas	integer optional. The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instance_type	string optional. The EC2 instance type to deploy to.
memory	integer optional. The amount of memory allocated to each replica of the Service.
cpu	integer optional. The amount of cpu allocated to each replica of the the Service.
credentials	array optional. A list of credential IDs to pass to the Service.
api_key_id	integer optional. API key id of user
permission_set_id	integer optional. The ID of the associated permission set, if any.
git_repo_url	string optional. The url for the git repo where the Service code lives.
git_repo_ref	string optional. The git reference to use when pulling code from the repo.
git_path_dir	string optional. The path to the Service code within the git repo. If unspecified, the root directory will be used.
environment_variables	list optional. Environment Variables to be passed into the Service.
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>failureEmailAddresses array, Addresses to notify by e-mail when the service fails.</li> <li>failureOn boolean, If failure email notifications are on</li> </ul>

## Value

A list containing the following elements:

id	integer, The ID for this Service.
name	string, The name of this Service.
description	string, The description of this Service.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>id integer, The ID of this user.</li> <li>name string, This user's name.</li> <li>username string, This user's username.</li> <li>initials string, This user's initials.</li> <li>online boolean, Whether this user is online.</li> </ul>
type	string, The type of this Service
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).

schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.</li> <li>recurrences array, List of day-hour combinations this item is scheduled for</li> </ul>
timeZone	string,
replicas	integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
maxReplicas	integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instanceType	string, The EC2 instance type to deploy to.
memory	integer, The amount of memory allocated to each replica of the Service.
cpu	integer, The amount of cpu allocated to each replica of the the Service.
createdAt	string,
updatedAt	string,
credentials	array, A list of credential IDs to pass to the Service.
apiKeyId	integer, API key id of user
permissionSetId	integer, The ID of the associated permission set, if any.
gitRepoUrl	string, The url for the git repo where the Service code lives.
gitRepoRef	string, The git reference to use when pulling code from the repo.
gitPathDir	string, The path to the Service code within the git repo. If unspecified, the root directory will be used.
reportId	integer, The ID of the associated report.
currentDeployment	list, A list containing the following elements: <ul style="list-style-type: none"> <li>deploymentId integer, The ID for this deployment.</li> <li>userId integer, The ID of the owner.</li> <li>host string, Domain of the deployment.</li> <li>name string, Name of the deployment.</li> <li>dockerImageName string, The name of the docker image to pull from DockerHub.</li> <li>dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li> <li>displayUrl string, A signed URL for viewing the deployed item.</li> <li>instanceType string, The EC2 instance type requested for the deployment.</li> <li>memory integer, The memory allocated to the deployment.</li> <li>cpu integer, The cpu allocated to the deployment.</li> <li>state string, The state of the deployment.</li> </ul>

- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- serviceId integer, The ID of owning Service

previewDeployment

list, A list containing the following elements:

- deploymentId integer, The ID for this deployment.
- userId integer, The ID of the owner.
- host string, Domain of the deployment.
- name string, Name of the deployment.
- dockerImageName string, The name of the docker image to pull from DockerHub.
- dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl string, A signed URL for viewing the deployed item.
- instanceType string, The EC2 instance type requested for the deployment.
- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- serviceId integer, The ID of owning Service

currentUrl string, The URL that the service is hosted at.

previewUrl string, The URL that previews of the service are hosted at.

environmentVariables

list, Environment Variables to be passed into the Service.

notifications list, A list containing the following elements:

- failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
- failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).

hidden boolean, The hidden status of the item.

---

services_post	<i>Create a Service</i>
---------------	-------------------------

---

### Description

Create a Service

### Usage

```
services_post(
  name = NULL,
  description = NULL,
  type = NULL,
  docker_image_name = NULL,
  docker_image_tag = NULL,
  schedule = NULL,
  replicas = NULL,
  max_replicas = NULL,
  instance_type = NULL,
  memory = NULL,
  cpu = NULL,
  credentials = NULL,
  api_key_id = NULL,
  permission_set_id = NULL,
  git_repo_url = NULL,
  git_repo_ref = NULL,
  git_path_dir = NULL,
  environment_variables = NULL,
  notifications = NULL,
  hidden = NULL
)
```

### Arguments

name	string optional. The name of this Service.
description	string optional. The description of this Service.
type	string optional. The type of this Service
docker_image_name	string optional. The name of the docker image to pull from DockerHub.
docker_image_tag	string optional. The tag of the docker image to pull from DockerHub (default: latest).
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically</li> </ul>

	turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.
	<ul style="list-style-type: none"> <li>recurrences array, List of day-hour combinations this item is scheduled for</li> </ul>
replicas	integer optional. The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
max_replicas	integer optional. The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instance_type	string optional. The EC2 instance type to deploy to.
memory	integer optional. The amount of memory allocated to each replica of the Service.
cpu	integer optional. The amount of cpu allocated to each replica of the the Service.
credentials	array optional. A list of credential IDs to pass to the Service.
api_key_id	integer optional. API key id of user
permission_set_id	integer optional. The ID of the associated permission set, if any.
git_repo_url	string optional. The url for the git repo where the Service code lives.
git_repo_ref	string optional. The git reference to use when pulling code from the repo.
git_path_dir	string optional. The path to the Service code within the git repo. If unspecified, the root directory will be used.
environment_variables	list optional. Environment Variables to be passed into the Service.
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>failureEmailAddresses array, Addresses to notify by e-mail when the service fails.</li> <li>failureOn boolean, If failure email notifications are on</li> </ul>
hidden	boolean optional. The hidden status of the item.

### Value

A list containing the following elements:

id	integer, The ID for this Service.
name	string, The name of this Service.
description	string, The description of this Service.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>id integer, The ID of this user.</li> <li>name string, This user's name.</li> <li>username string, This user's username.</li> <li>initials string, This user's initials.</li> <li>online boolean, Whether this user is online.</li> </ul>
type	string, The type of this Service



dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.</li> <li>recurrences array, List of day-hour combinations this item is scheduled for</li> </ul>
timeZone	string,
replicas	integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
maxReplicas	integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instanceType	string, The EC2 instance type to deploy to.
memory	integer, The amount of memory allocated to each replica of the Service.
cpu	integer, The amount of cpu allocated to each replica of the the Service.
createdAt	string,
updatedAt	string,
credentials	array, A list of credential IDs to pass to the Service.
apiKeyId	integer, API key id of user
permissionSetId	integer, The ID of the associated permission set, if any.
gitRepoUrl	string, The url for the git repo where the Service code lives.
gitRepoRef	string, The git reference to use when pulling code from the repo.
gitPathDir	string, The path to the Service code within the git repo. If unspecified, the root directory will be used.
reportId	integer, The ID of the associated report.
currentDeployment	list, A list containing the following elements: <ul style="list-style-type: none"> <li>deploymentId integer, The ID for this deployment.</li> <li>userId integer, The ID of the owner.</li> <li>host string, Domain of the deployment.</li> <li>name string, Name of the deployment.</li> <li>dockerImageName string, The name of the docker image to pull from DockerHub.</li> <li>dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li> <li>displayUrl string, A signed URL for viewing the deployed item.</li> <li>instanceType string, The EC2 instance type requested for the deployment.</li> </ul>

- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- serviceId integer, The ID of owning Service

previewDeployment

list, A list containing the following elements:

- deploymentId integer, The ID for this deployment.
- userId integer, The ID of the owner.
- host string, Domain of the deployment.
- name string, Name of the deployment.
- dockerImageName string, The name of the docker image to pull from DockerHub.
- dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl string, A signed URL for viewing the deployed item.
- instanceType string, The EC2 instance type requested for the deployment.
- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- serviceId integer, The ID of owning Service

currentUrl string, The URL that the service is hosted at.

previewUrl string, The URL that previews of the service are hosted at.

environmentVariables

list, Environment Variables to be passed into the Service.

notifications list, A list containing the following elements:

- failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
- failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).

hidden boolean, The hidden status of the item.

---

services\_post\_clone    *Clone this Service*

---

### Description

Clone this Service

### Usage

services\_post\_clone(id)

### Arguments

id                    integer required.

### Value

A list containing the following elements:

id	integer, The ID for this Service.
name	string, The name of this Service.
description	string, The description of this Service.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
type	string, The type of this Service
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.</li> <li>• recurrences array, List of day-hour combinations this item is scheduled for</li> </ul>
timeZone	string,
replicas	integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.

maxReplicas	integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instanceType	string, The EC2 instance type to deploy to.
memory	integer, The amount of memory allocated to each replica of the Service.
cpu	integer, The amount of cpu allocated to each replica of the the Service.
createdAt	string,
updatedAt	string,
credentials	array, A list of credential IDs to pass to the Service.
apiKeyId	integer, API key id of user
permissionSetId	integer, The ID of the associated permission set, if any.
gitRepoUrl	string, The url for the git repo where the Service code lives.
gitRepoRef	string, The git reference to use when pulling code from the repo.
gitPathDir	string, The path to the Service code within the git repo. If unspecified, the root directory will be used.
reportId	integer, The ID of the associated report.
currentDeployment	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• deploymentId integer, The ID for this deployment.</li> <li>• userId integer, The ID of the owner.</li> <li>• host string, Domain of the deployment.</li> <li>• name string, Name of the deployment.</li> <li>• dockerImageName string, The name of the docker image to pull from DockerHub.</li> <li>• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li> <li>• displayUrl string, A signed URL for viewing the deployed item.</li> <li>• instanceType string, The EC2 instance type requested for the deployment.</li> <li>• memory integer, The memory allocated to the deployment.</li> <li>• cpu integer, The cpu allocated to the deployment.</li> <li>• state string, The state of the deployment.</li> <li>• stateMessage string, A detailed description of the state.</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> <li>• published boolean,</li> <li>• serviceId integer, The ID of owning Service</li> </ul>
previewDeployment	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• deploymentId integer, The ID for this deployment.</li> <li>• userId integer, The ID of the owner.</li> <li>• host string, Domain of the deployment.</li> </ul>

- name string, Name of the deployment.
- dockerImageName string, The name of the docker image to pull from DockerHub.
- dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl string, A signed URL for viewing the deployed item.
- instanceType string, The EC2 instance type requested for the deployment.
- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- serviceId integer, The ID of owning Service

currentUrl string, The URL that the service is hosted at.

previewUrl string, The URL that previews of the service are hosted at.

environmentVariables list, Environment Variables to be passed into the Service.

notifications list, A list containing the following elements:

- failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
- failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).

hidden boolean, The hidden status of the item.

---

services\_post\_deployments

*Deploy a Service*

---

### Description

Deploy a Service

### Usage

```
services_post_deployments(service_id, deployment_id = NULL, published = NULL)
```

### Arguments

service\_id integer required. The ID of the owning Service

deployment\_id integer optional. The ID for this deployment

published boolean optional.

**Value**

A list containing the following elements:

deploymentId	integer, The ID for this deployment.
userId	integer, The ID of the owner.
host	string, Domain of the deployment.
name	string, Name of the deployment.
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
displayUrl	string, A signed URL for viewing the deployed item.
instanceType	string, The EC2 instance type requested for the deployment.
memory	integer, The memory allocated to the deployment.
cpu	integer, The cpu allocated to the deployment.
state	string, The state of the deployment.
stateMessage	string, A detailed description of the state.
createdAt	string,
updatedAt	string,
published	boolean,
serviceId	integer, The ID of owning Service

---

services\_post\_redeploy

*Redeploy a Service*

---

**Description**

Redeploy a Service

**Usage**

services\_post\_redeploy(service\_id, deployment\_id = NULL, published = NULL)

**Arguments**

service_id	integer required. The ID of the owning Service
deployment_id	integer optional. The ID for this deployment
published	boolean optional.

**Value**

A list containing the following elements:

deploymentId	integer, The ID for this deployment.
userId	integer, The ID of the owner.
host	string, Domain of the deployment.
name	string, Name of the deployment.
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
displayUrl	string, A signed URL for viewing the deployed item.
instanceType	string, The EC2 instance type requested for the deployment.
memory	integer, The memory allocated to the deployment.
cpu	integer, The cpu allocated to the deployment.
state	string, The state of the deployment.
stateMessage	string, A detailed description of the state.
createdAt	string,
updatedAt	string,
published	boolean,
serviceId	integer, The ID of owning Service

---

services\_post\_tokens *Create a new long-lived service token*

---

**Description**

Create a new long-lived service token

**Usage**

```
services_post_tokens(id, name, machine_token = NULL)
```

**Arguments**

id	integer required. The ID of the service.
name	string required. The name of the token.
machine_token	boolean optional. If true, create a compact token with no user information.

**Value**

A list containing the following elements:

id	integer, The ID of the token.
name	string, The name of the token.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
machineToken	boolean, If true, this token is not tied to a particular user.
createdAt	string, The date and time when the token was created.
token	string, The value of the token. Only returned when the token is first created.

---

services_put	<i>Replace all attributes of this Service</i>
--------------	---

---

**Description**

Replace all attributes of this Service

**Usage**

```
services_put(
  id,
  name = NULL,
  description = NULL,
  docker_image_name = NULL,
  docker_image_tag = NULL,
  schedule = NULL,
  replicas = NULL,
  max_replicas = NULL,
  instance_type = NULL,
  memory = NULL,
  cpu = NULL,
  credentials = NULL,
  api_key_id = NULL,
  permission_set_id = NULL,
  git_repo_url = NULL,
  git_repo_ref = NULL,
  git_path_dir = NULL,
  environment_variables = NULL,
  notifications = NULL
)
```



**Arguments**

id	integer required. The ID for this Service.
name	string optional. The name of this Service.
description	string optional. The description of this Service.
docker_image_name	string optional. The name of the docker image to pull from DockerHub.
docker_image_tag	string optional. The tag of the docker image to pull from DockerHub (default: latest).
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.</li> <li>recurrences array, List of day-hour combinations this item is scheduled for</li> </ul>
replicas	integer optional. The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
max_replicas	integer optional. The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instance_type	string optional. The EC2 instance type to deploy to.
memory	integer optional. The amount of memory allocated to each replica of the Service.
cpu	integer optional. The amount of cpu allocated to each replica of the the Service.
credentials	array optional. A list of credential IDs to pass to the Service.
api_key_id	integer optional. API key id of user
permission_set_id	integer optional. The ID of the associated permission set, if any.
git_repo_url	string optional. The url for the git repo where the Service code lives.
git_repo_ref	string optional. The git reference to use when pulling code from the repo.
git_path_dir	string optional. The path to the Service code within the git repo. If unspecified, the root directory will be used.
environment_variables	list optional. Environment Variables to be passed into the Service.
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>failureEmailAddresses array, Addresses to notify by e-mail when the service fails.</li> <li>failureOn boolean, If failure email notifications are on</li> </ul>

**Value**

A list containing the following elements:

id	integer, The ID for this Service.
name	string, The name of this Service.
description	string, The description of this Service.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
type	string, The type of this Service
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.</li> <li>• recurrences array, List of day-hour combinations this item is scheduled for</li> </ul>
timeZone	string,
replicas	integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
maxReplicas	integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instanceType	string, The EC2 instance type to deploy to.
memory	integer, The amount of memory allocated to each replica of the Service.
cpu	integer, The amount of cpu allocated to each replica of the the Service.
createdAt	string,
updatedAt	string,
credentials	array, A list of credential IDs to pass to the Service.
apiKeyId	integer, API key id of user
permissionSetId	integer, The ID of the associated permission set, if any.
gitRepoUrl	string, The url for the git repo where the Service code lives.
gitRepoRef	string, The git reference to use when pulling code from the repo.
gitPathDir	string, The path to the Service code within the git repo. If unspecified, the root directory will be used.

reportId	integer, The ID of the associated report.
currentDeployment	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"><li>• deploymentId integer, The ID for this deployment.</li><li>• userId integer, The ID of the owner.</li><li>• host string, Domain of the deployment.</li><li>• name string, Name of the deployment.</li><li>• dockerImageName string, The name of the docker image to pull from DockerHub.</li><li>• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li><li>• displayUrl string, A signed URL for viewing the deployed item.</li><li>• instanceType string, The EC2 instance type requested for the deployment.</li><li>• memory integer, The memory allocated to the deployment.</li><li>• cpu integer, The cpu allocated to the deployment.</li><li>• state string, The state of the deployment.</li><li>• stateMessage string, A detailed description of the state.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• published boolean,</li><li>• serviceId integer, The ID of owning Service</li></ul>
previewDeployment	<p>list, A list containing the following elements:</p> <ul style="list-style-type: none"><li>• deploymentId integer, The ID for this deployment.</li><li>• userId integer, The ID of the owner.</li><li>• host string, Domain of the deployment.</li><li>• name string, Name of the deployment.</li><li>• dockerImageName string, The name of the docker image to pull from DockerHub.</li><li>• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li><li>• displayUrl string, A signed URL for viewing the deployed item.</li><li>• instanceType string, The EC2 instance type requested for the deployment.</li><li>• memory integer, The memory allocated to the deployment.</li><li>• cpu integer, The cpu allocated to the deployment.</li><li>• state string, The state of the deployment.</li><li>• stateMessage string, A detailed description of the state.</li><li>• createdAt string,</li><li>• updatedAt string,</li><li>• published boolean,</li><li>• serviceId integer, The ID of owning Service</li></ul>
currentUrl	string, The URL that the service is hosted at.

previewUrl	string, The URL that previews of the service are hosted at.
environmentVariables	list, Environment Variables to be passed into the Service.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>failureEmailAddresses array, Addresses to notify by e-mail when the service fails.</li> <li>failureOn boolean, If failure email notifications are on</li> </ul>
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.

---

services\_put\_archive *Update the archive status of this object*

---

### Description

Update the archive status of this object

### Usage

```
services_put_archive(id, status)
```

### Arguments

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

### Value

A list containing the following elements:

id	integer, The ID for this Service.
name	string, The name of this Service.
description	string, The description of this Service.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>id integer, The ID of this user.</li> <li>name string, This user's name.</li> <li>username string, This user's username.</li> <li>initials string, This user's initials.</li> <li>online boolean, Whether this user is online.</li> </ul>
type	string, The type of this Service
dockerImageName	string, The name of the docker image to pull from DockerHub.
dockerImageTag	string, The tag of the docker image to pull from DockerHub (default: latest).

schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.</li> <li>recurrences array, List of day-hour combinations this item is scheduled for</li> </ul>
timeZone	string,
replicas	integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
maxReplicas	integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instanceType	string, The EC2 instance type to deploy to.
memory	integer, The amount of memory allocated to each replica of the Service.
cpu	integer, The amount of cpu allocated to each replica of the the Service.
createdAt	string,
updatedAt	string,
credentials	array, A list of credential IDs to pass to the Service.
apiKeyId	integer, API key id of user
permissionSetId	integer, The ID of the associated permission set, if any.
gitRepoUrl	string, The url for the git repo where the Service code lives.
gitRepoRef	string, The git reference to use when pulling code from the repo.
gitPathDir	string, The path to the Service code within the git repo. If unspecified, the root directory will be used.
reportId	integer, The ID of the associated report.
currentDeployment	list, A list containing the following elements: <ul style="list-style-type: none"> <li>deploymentId integer, The ID for this deployment.</li> <li>userId integer, The ID of the owner.</li> <li>host string, Domain of the deployment.</li> <li>name string, Name of the deployment.</li> <li>dockerImageName string, The name of the docker image to pull from DockerHub.</li> <li>dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).</li> <li>displayUrl string, A signed URL for viewing the deployed item.</li> <li>instanceType string, The EC2 instance type requested for the deployment.</li> <li>memory integer, The memory allocated to the deployment.</li> <li>cpu integer, The cpu allocated to the deployment.</li> <li>state string, The state of the deployment.</li> </ul>

- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- serviceId integer, The ID of owning Service

previewDeployment

list, A list containing the following elements:

- deploymentId integer, The ID for this deployment.
- userId integer, The ID of the owner.
- host string, Domain of the deployment.
- name string, Name of the deployment.
- dockerImageName string, The name of the docker image to pull from DockerHub.
- dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl string, A signed URL for viewing the deployed item.
- instanceType string, The EC2 instance type requested for the deployment.
- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- serviceId integer, The ID of owning Service

currentUrl string, The URL that the service is hosted at.

previewUrl string, The URL that previews of the service are hosted at.

environmentVariables

list, Environment Variables to be passed into the Service.

notifications list, A list containing the following elements:

- failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
- failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).

hidden boolean, The hidden status of the item.

---

services\_put\_projects *Add a Service to a project*

---

**Description**

Add a Service to a project

**Usage**

```
services_put_projects(id, project_id)
```

**Arguments**

id	integer required. The ID of the Service.
project_id	integer required. The ID of the project.

**Value**

An empty HTTP response

---

services\_put\_shares\_groups  
*Set the permissions groups has on this object*

---

**Description**

Set the permissions groups has on this object

**Usage**

```
services_put_shares_groups(  
    id,  
    group_ids,  
    permission_level,  
    share_email_body = NULL,  
    send_shared_email = NULL  
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

services\_put\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
services_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```



**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

 sql

*SQL escaping*


---

**Description**

SQL escaping

**Usage**

sql(...)

**Arguments**

... Character vectors that will be combined into a single SQL expression.

---

`stash_local_dataframe` *Stash a data frame in feather or csv format, depending on CivisML version.*

---

**Description**

Stash a data frame in feather or csv format, depending on CivisML version.

**Usage**

```
stash_local_dataframe(x, tpl_id)
```

**Arguments**

<code>x</code>	data.frame to stash
<code>tpl_id</code>	CivisML training template id

**Value**

file id where dataframe is stored

---

`storage_hosts_delete` *Delete a storage host (deprecated)*

---

**Description**

Delete a storage host (deprecated)

**Usage**

```
storage_hosts_delete(id)
```

**Arguments**

<code>id</code>	integer required. The ID of the storage host.
-----------------	---

**Value**

An empty HTTP response

---

storage\_hosts\_delete\_shares\_groups

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

storage\_hosts\_delete\_shares\_groups(id, group\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
group_id	integer required. The ID of the group.

**Value**

An empty HTTP response

---

storage\_hosts\_delete\_shares\_users

*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

storage\_hosts\_delete\_shares\_users(id, user\_id)

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

storage\_hosts\_get      *Get a storage host*

---

**Description**

Get a storage host

**Usage**

storage\_hosts\_get(id)

**Arguments**

id                      integer required. The ID of the storage host.

**Value**

A list containing the following elements:

id	integer, The ID of the storage host.
owner	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The human readable name for the storage host.
provider	string, The storage provider. One of: s3.
bucket	string, The bucket for this storage host.
s3options	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• region string, The region for this storage host (ex. "us-east-1")</li> </ul>

---

storage\_hosts\_list      *List the storage hosts*

---

**Description**

List the storage hosts

**Usage**

storage\_hosts\_list()

**Value**

An array containing the following fields:

id	integer, The ID of the storage host.
owner	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The human readable name for the storage host.
provider	string, The storage provider. One of: s3.
bucket	string, The bucket for this storage host.
s3options	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• region string, The region for this storage host (ex. "us-east-1")</li> </ul>

---

storage\_hosts\_list\_shares

*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

storage\_hosts\_list\_shares(id)

**Arguments**

id integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements:

	<ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

storage\_hosts\_patch    *Update some attributes of this storage host*

---

## Description

Update some attributes of this storage host

## Usage

```
storage_hosts_patch(
  id,
  name = NULL,
  provider = NULL,
  bucket = NULL,
  s3_options = NULL
)
```

## Arguments

id	integer required. The ID of the storage host.
name	string optional. The human readable name for the storage host.
provider	string optional. The storage provider. One of: s3.
bucket	string optional. The bucket for this storage host.
s3_options	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• region string, The region for this storage host (ex. "us-east-1")</li> </ul>

## Value

A list containing the following elements:

id	integer, The ID of the storage host.
owner	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> </ul>

	<ul style="list-style-type: none"> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The human readable name for the storage host.
provider	string, The storage provider.One of: s3.
bucket	string, The bucket for this storage host.
s3options	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• region string, The region for this storage host (ex. "us-east-1")</li> </ul>

---

storage\_hosts\_post     *Create a new storage host*

---

### Description

Create a new storage host

### Usage

```
storage_hosts_post(provider, bucket, name, s3_options = NULL)
```

### Arguments

provider	string required. The storage provider.One of: s3.
bucket	string required. The bucket for this storage host.
name	string required. The human readable name for the storage host.
s3_options	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• region string, The region for this storage host (ex. "us-east-1")</li> </ul>

### Value

A list containing the following elements:

id	integer, The ID of the storage host.
owner	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The human readable name for the storage host.
provider	string, The storage provider.One of: s3.
bucket	string, The bucket for this storage host.
s3options	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• region string, The region for this storage host (ex. "us-east-1")</li> </ul>

---

storage\_hosts\_put      *Replace all attributes of this storage host*

---

### Description

Replace all attributes of this storage host

### Usage

```
storage_hosts_put(id, name, provider, bucket, s3_options = NULL)
```

### Arguments

id	integer required. The ID of the storage host.
name	string required. The human readable name for the storage host.
provider	string required. The storage provider. One of: s3.
bucket	string required. The bucket for this storage host.
s3_options	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• region string, The region for this storage host (ex. "us-east-1")</li> </ul>

### Value

A list containing the following elements:

id	integer, The ID of the storage host.
owner	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The human readable name for the storage host.
provider	string, The storage provider. One of: s3.
bucket	string, The bucket for this storage host.
s3options	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• region string, The region for this storage host (ex. "us-east-1")</li> </ul>



---

 storage\_hosts\_put\_shares\_groups

*Set the permissions groups has on this object*


---

**Description**

Set the permissions groups has on this object

**Usage**

```
storage_hosts_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares  
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

storage\_hosts\_put\_shares\_users  
*Set the permissions users have on this object*

---

### Description

Set the permissions users have on this object

### Usage

```
storage_hosts_put_shares_users(  
  id,  
  user_ids,  
  permission_level,  
  share_email_body = NULL,  
  send_shared_email = NULL  
)
```

### Arguments

id integer required. The ID of the resource that is shared.  
user\_ids array required. An array of one or more user IDs.  
permission\_level string required. Options are: "read", "write", or "manage".  
share\_email\_body string optional. Custom body text for e-mail sent on a share.  
send\_shared\_email boolean optional. Send email to the recipients of a share.

### Value

A list containing the following elements:

readers list, A list containing the following elements:

- users array,
- groups array,

writers list, A list containing the following elements:

- users array,
- groups array,

owners list, A list containing the following elements:

- users array,

- groups array,
- totalUserShares  
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- totalGroupShares  
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

tables\_delete\_projects

*Remove a Table from a project*

---

### Description

Remove a Table from a project

### Usage

tables\_delete\_projects(id, project\_id)

### Arguments

id                    integer required. The ID of the Table.  
project\_id           integer required. The ID of the project.

### Value

An empty HTTP response

---

tables\_get

*Show basic table info*

---

### Description

Show basic table info

### Usage

tables\_get(id)

### Arguments

id                    integer required.

**Value**

A list containing the following elements:

id	integer, The ID of the table.
databaseId	integer, The ID of the database.
schema	string, The name of the schema containing the table.
name	string, Name of the table.
description	string, The description of the table, as specified by the table owner
isView	boolean, True if this table represents a view. False if it represents a regular table.
rowCount	integer, The number of rows in the table.
columnCount	integer, The number of columns in the table.
sizeMb	number, The size of the table in megabytes.
owner	string, The database username of the table's owner.
distkey	string, The column used as the Amazon Redshift distkey.
sortkeys	string, The column used as the Amazon Redshift sortkey.
refreshStatus	string, How up-to-date the table's statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.
lastRefresh	string, The time of the last statistics refresh.
dataUpdatedAt	string, The last time that Civis Platform captured a change in this table. Only applicable for Redshift tables; please see the Civis help desk for more info.
schemaUpdatedAt	string, The last time that Civis Platform captured a change to the table attributes/structure. Only applicable for Redshift tables; please see the Civis help desk for more info.
refreshId	string, The ID of the most recent statistics refresh.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
primaryKeys	array, The primary keys for this table.
lastModifiedKeys	array, The columns indicating an entry's modification status for this table.
ontologyMapping	list, The ontology-key to column-name mapping. See /ontology for the list of valid ontology keys.
columns	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, Name of the column.</li> </ul>

- `civisDataType` string, The generic data type of the column (ex. "string"). Since this is database-agnostic, it may be helpful when loading data to R/Python.
  - `sqlType` string, The database-specific SQL type of the column (ex. "varchar(30)").
  - `sampleValues` array, A sample of values from the column.
  - `encoding` string, The compression encoding for this column. See: <http://docs.aws.amazon.com/redshift>
  - `description` string, The description of the column, as specified by the table owner
  - `order` integer, Relative position of the column in the table.
  - `minValue` string, Smallest value in the column.
  - `maxValue` string, Largest value in the column.
  - `avgValue` number, Average value of the column, where applicable.
  - `stddev` number, Stddev of the column, where applicable.
  - `valueDistributionPercent` object, A mapping between each value in the column and the percentage of rows with that value. Only present for tables with fewer than approximately 25,000,000 rows and for columns with fewer than twenty distinct values.
  - `coverageCount` integer, Number of non-null values in the column.
  - `nullCount` integer, Number of null values in the column.
  - `possibleDependentVariableTypes` array, Possible dependent variable types the column may be used to model. Null if it may not be used as a dependent variable.
  - `useableAsIndependentVariable` boolean, Whether the column may be used as an independent variable to train a model.
  - `useableAsPrimaryKey` boolean, Whether the column may be used as a primary key to identify table rows.
  - `valueDistribution` object, An object mapping distinct values in the column to the number of times they appear in the column
  - `distinctCount` integer, Number of distinct values in the column.
- `joins` array, An array containing the following fields:
- `id` integer,
  - `leftTableId` integer,
  - `leftIdentifier` string,
  - `rightTableId` integer,
  - `rightIdentifier` string,
  - `on` string,
  - `leftJoin` boolean,
  - `createdAt` string,
  - `updatedAt` string,
- `multipartKey` array,
- `enhancements` array, An array containing the following fields:
- `type` string,

- createdAt string,
- updatedAt string,
- joinId integer,

viewDef string,

tableDef string,

outgoingTableMatches  
array, An array containing the following fields:

- sourceTableId integer, Source table
- targetType string, Target type
- targetId integer, Target ID
- target object,
- job object,

---

tables\_get\_enhancements\_cass\_ncoa

*View the status of a CASS / NCOA table enhancement*

---

### Description

View the status of a CASS / NCOA table enhancement

### Usage

tables\_get\_enhancements\_cass\_ncoa(id, source\_table\_id)

### Arguments

id integer required. The ID of the enhancement.

source\_table\_id integer required. The ID of the table that was enhanced.

### Value

A list containing the following elements:

id integer, The ID of the enhancement.

sourceTableId integer, The ID of the table that was enhanced.

state string, The state of the enhancement, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.

enhancedTableSchema string, The schema name of the table created by the enhancement.

enhancedTableName string, The name of the table created by the enhancement.

performNcoa boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoaCredentialId	integer, Credential to use when performing NCOA updates. Required if 'performNcoa' is true.
outputLevel	string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all.' For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

---

tables\_get\_enhancements\_gecodings

*View the status of a geocoding table enhancement*

---

### Description

View the status of a geocoding table enhancement

### Usage

```
tables_get_enhancements_gecodings(id, source_table_id)
```

### Arguments

id	integer required. The ID of the enhancement.
source_table_id	integer required. The ID of the table that was enhanced.

### Value

A list containing the following elements:

id	integer, The ID of the enhancement.
sourceTableId	integer, The ID of the table that was enhanced.
state	string, The state of the enhancement, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
enhancedTableSchema	string, The schema name of the table created by the enhancement.
enhancedTableName	string, The name of the table created by the enhancement.

---

tables_list	<i>List tables</i>
-------------	--------------------

---

**Description**

List tables

**Usage**

```
tables_list(
  database_id = NULL,
  schema = NULL,
  name = NULL,
  search = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

database_id	integer optional. The ID of the database.
schema	string optional. If specified, will be used to filter the tables returned. Substring matching is supported with "%" and "*" wildcards (e.g., "schema=%census%" will return both "client_census.table" and "census_2010.table").
name	string optional. If specified, will be used to filter the tables returned. Substring matching is supported with "%" and "*" wildcards (e.g., "name=%table%" will return both "table1" and "my table").
search	string optional. If specified, will be used to filter the tables returned. Will search across schema and name (in the full form schema.name) and will return any full name containing the search string.
limit	integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to schema. Must be one of: schema, name, search.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

**Value**

An array containing the following fields:

id	integer, The ID of the table.
----	-------------------------------



databaseId	integer, The ID of the database.
schema	string, The name of the schema containing the table.
name	string, Name of the table.
description	string, The description of the table, as specified by the table owner
isView	boolean, True if this table represents a view. False if it represents a regular table.
rowCount	integer, The number of rows in the table.
columnCount	integer, The number of columns in the table.
sizeMb	number, The size of the table in megabytes.
owner	string, The database username of the table's owner.
distkey	string, The column used as the Amazon Redshift distkey.
sortkeys	string, The column used as the Amazon Redshift sortkey.
refreshStatus	string, How up-to-date the table's statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.
lastRefresh	string, The time of the last statistics refresh.
refreshId	string, The ID of the most recent statistics refresh.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>

---

tables\_list\_columns    *List columns in the specified table*

---

### Description

List columns in the specified table

### Usage

```
tables_list_columns(
  id,
  name = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

id	integer required.
name	string optional. Search for columns with the given name, within the specified table.
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to name. Must be one of: name, order.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

**Value**

An array containing the following fields:

name	string, Name of the column.
civisDataType	string, The generic data type of the column (ex. "string"). Since this is database-agnostic, it may be helpful when loading data to R/Python.
sqlType	string, The database-specific SQL type of the column (ex. "varchar(30)").
sampleValues	array, A sample of values from the column.
encoding	string, The compression encoding for this columnSee: <a href="http://docs.aws.amazon.com/redshift/latest/dg/c_C">http://docs.aws.amazon.com/redshift/latest/dg/c_C</a>
description	string, The description of the column, as specified by the table owner
order	integer, Relative position of the column in the table.
minValue	string, Smallest value in the column.
maxValue	string, Largest value in the column.
avgValue	number, Average value of the column, where applicable.
stddev	number, Stddev of the column, where applicable.
valueDistributionPercent	list, A mapping between each value in the column and the percentage of rows with that value. Only present for tables with fewer than approximately 25,000,000 rows and for columns with fewer than twenty distinct values.
coverageCount	integer, Number of non-null values in the column.
nullCount	integer, Number of null values in the column.
possibleDependentVariableTypes	array, Possible dependent variable types the column may be used to model. Null if it may not be used as a dependent variable.
useableAsIndependentVariable	boolean, Whether the column may be used as an independent variable to train a model.
useableAsPrimaryKey	boolean, Whether the column may be used as a primary key to identify table rows.

valueDistribution	list, An object mapping distinct values in the column to the number of times they appear in the column
distinctCount	integer, Number of distinct values in the column.

---

tables\_list\_projects *List the projects a Table belongs to*

---

### Description

List the projects a Table belongs to

### Usage

```
tables_list_projects(id, hidden = NULL)
```

### Arguments

id	integer required. The ID of the Table.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

### Value

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

tables_patch	<i>Update a table</i>
--------------	-----------------------

---

**Description**

Update a table

**Usage**

```
tables_patch(
  id,
  ontology_mapping = NULL,
  description = NULL,
  primary_keys = NULL,
  last_modified_keys = NULL
)
```

**Arguments**

id	integer required. The ID of the table.
ontology_mapping	list optional. The ontology-key to column-name mapping. See /ontology for the list of valid ontology keys.
description	string optional. The user-defined description of the table.
primary_keys	array optional. A list of column(s) which together uniquely identify a row in the data. These columns must not contain NULL values.
last_modified_keys	array optional. The columns indicating when a row was last modified.

**Value**

A list containing the following elements:

id	integer, The ID of the table.
databaseId	integer, The ID of the database.
schema	string, The name of the schema containing the table.
name	string, Name of the table.
description	string, The description of the table, as specified by the table owner
isView	boolean, True if this table represents a view. False if it represents a regular table.
rowCount	integer, The number of rows in the table.
columnCount	integer, The number of columns in the table.
sizeMb	number, The size of the table in megabytes.
owner	string, The database username of the table's owner.

distkey	string, The column used as the Amazon Redshift distkey.
sortkeys	string, The column used as the Amazon Redshift sortkey.
refreshStatus	string, How up-to-date the table's statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.
lastRefresh	string, The time of the last statistics refresh.
dataUpdatedAt	string, The last time that Civis Platform captured a change in this table. Only applicable for Redshift tables; please see the Civis help desk for more info.
schemaUpdatedAt	string, The last time that Civis Platform captured a change to the table attributes/structure. Only applicable for Redshift tables; please see the Civis help desk for more info.
refreshId	string, The ID of the most recent statistics refresh.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
primaryKeys	array, The primary keys for this table.
lastModifiedKeys	array, The columns indicating an entry's modification status for this table.
ontologyMapping	list, The ontology-key to column-name mapping. See /ontology for the list of valid ontology keys.

---

tables\_post\_enhancements\_cass\_ncoa

*Standardize addresses in a table*

---

## Description

Standardize addresses in a table

## Usage

```
tables_post_enhancements_cass_ncoa(
  source_table_id,
  perform_ncoa = NULL,
  ncoa_credential_id = NULL,
  output_level = NULL
)
```

**Arguments**

source_table_id	integer required. The ID of the table to be enhanced.
perform_ncoa	boolean optional. Whether to update addresses for records matching the National Change of Address (NCOA) database.
ncoa_credential_id	integer optional. Credential to use when performing NCOA updates. Required if 'performNcoa' is true.
output_level	string optional. The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all.' For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

**Value**

A list containing the following elements:

id	integer, The ID of the enhancement.
sourceTableId	integer, The ID of the table that was enhanced.
state	string, The state of the enhancement, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
enhancedTableSchema	string, The schema name of the table created by the enhancement.
enhancedTableName	string, The name of the table created by the enhancement.
performNcoa	boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.
ncoaCredentialId	integer, Credential to use when performing NCOA updates. Required if 'performNcoa' is true.
outputLevel	string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all.' For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

---

tables\_post\_enhancements\_geocodings  
*Geocode a table*

---

**Description**

Geocode a table

**Usage**

tables\_post\_enhancements\_geocodings(source\_table\_id)

**Arguments**

source\_table\_id  
integer required. The ID of the table to be enhanced.

**Value**

A list containing the following elements:

id integer, The ID of the enhancement.  
sourceTableId integer, The ID of the table that was enhanced.  
state string, The state of the enhancement, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.  
enhancedTableSchema string, The schema name of the table created by the enhancement.  
enhancedTableName string, The name of the table created by the enhancement.

---

tables\_post\_refresh *Request a refresh for column and table statistics*

---

**Description**

Request a refresh for column and table statistics

**Usage**

tables\_post\_refresh(id)

**Arguments**

id integer required.

**Value**

A list containing the following elements:

id integer, The ID of the table.  
databaseId integer, The ID of the database.  
schema string, The name of the schema containing the table.  
name string, Name of the table.  
description string, The description of the table, as specified by the table owner  
isView boolean, True if this table represents a view. False if it represents a regular table.  
rowCount integer, The number of rows in the table.  
columnCount integer, The number of columns in the table.  
sizeMb number, The size of the table in megabytes.

owner	string, The database username of the table's owner.
distkey	string, The column used as the Amazon Redshift distkey.
sortkeys	string, The column used as the Amazon Redshift sortkey.
refreshStatus	string, How up-to-date the table's statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.
lastRefresh	string, The time of the last statistics refresh.
dataUpdatedAt	string, The last time that Civis Platform captured a change in this table. Only applicable for Redshift tables; please see the Civis help desk for more info.
schemaUpdatedAt	string, The last time that Civis Platform captured a change to the table attributes/structure. Only applicable for Redshift tables; please see the Civis help desk for more info.
refreshId	string, The ID of the most recent statistics refresh.
lastRun	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• state string,</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> <li>• error string, The error message for this run, if present.</li> </ul>
primaryKeys	array, The primary keys for this table.
lastModifiedKeys	array, The columns indicating an entry's modification status for this table.
ontologyMapping	list, The ontology-key to column-name mapping. See /ontology for the list of valid ontology keys.
columns	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, Name of the column.</li> <li>• civisDataType string, The generic data type of the column (ex. "string"). Since this is database-agnostic, it may be helpful when loading data to R/Python.</li> <li>• sqlType string, The database-specific SQL type of the column (ex. "varchar(30)").</li> <li>• sampleValues array, A sample of values from the column.</li> <li>• encoding string, The compression encoding for this column See: <a href="http://docs.aws.amazon.com/redshift/">http://docs.aws.amazon.com/redshift/</a></li> <li>• description string, The description of the column, as specified by the table owner</li> <li>• order integer, Relative position of the column in the table.</li> <li>• minValue string, Smallest value in the column.</li> <li>• maxValue string, Largest value in the column.</li> <li>• avgValue number, Average value of the column, where applicable.</li> <li>• stddev number, Stddev of the column, where applicable.</li> </ul>



	<ul style="list-style-type: none"> <li>• valueDistributionPercent object, A mapping between each value in the column and the percentage of rows with that value. Only present for tables with fewer than approximately 25,000,000 rows and for columns with fewer than twenty distinct values.</li> <li>• coverageCount integer, Number of non-null values in the column.</li> <li>• nullCount integer, Number of null values in the column.</li> <li>• possibleDependentVariableTypes array, Possible dependent variable types the column may be used to model. Null if it may not be used as a dependent variable.</li> <li>• useableAsIndependentVariable boolean, Whether the column may be used as an independent variable to train a model.</li> <li>• useableAsPrimaryKey boolean, Whether the column may be used as a primary key to identify table rows.</li> <li>• valueDistribution object, An object mapping distinct values in the column to the number of times they appear in the column</li> <li>• distinctCount integer, Number of distinct values in the column.</li> </ul>
joins	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer,</li> <li>• leftTableId integer,</li> <li>• leftIdentifier string,</li> <li>• rightTableId integer,</li> <li>• rightIdentifier string,</li> <li>• on string,</li> <li>• leftJoin boolean,</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> </ul>
multipartKey	array,
enhancements	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• type string,</li> <li>• createdAt string,</li> <li>• updatedAt string,</li> <li>• joinId integer,</li> </ul>
viewDef	string,
tableDef	string,
outgoingTableMatches	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• sourceTableId integer, Source table</li> <li>• targetType string, Target type</li> <li>• targetId integer, Target ID</li> <li>• target object,</li> <li>• job object,</li> </ul>

---

tables_post_scan	<i>Creates and enqueues a single table scanner job on a new table</i>
------------------	---

---

**Description**

Creates and enqueues a single table scanner job on a new table

**Usage**

```
tables_post_scan(database_id, schema, table_name, stats_priority = NULL)
```

**Arguments**

database_id	integer required. The ID of the database.
schema	string required. The name of the schema containing the table.
table_name	string required. The name of the table.
stats_priority	string optional. When to sync table statistics. Valid Options are the following. Option: 'flag' means to flag stats for the next scheduled run of a full table scan on the database. Option: 'block' means to block this job on stats syncing. Option: 'queue' means to queue a separate job for syncing stats and do not block this job on the queued job. Defaults to 'flag'

**Value**

A list containing the following elements:

jobId	integer, The ID of the job created.
runId	integer, The ID of the run created.

---

tables_put_projects	<i>Add a Table to a project</i>
---------------------	---------------------------------

---

**Description**

Add a Table to a project

**Usage**

```
tables_put_projects(id, project_id)
```

**Arguments**

id	integer required. The ID of the Table.
project_id	integer required. The ID of the project.

**Value**

An empty HTTP response

---

templates\_delete\_reports

*Archive a Report Template (deprecated, use archiving endpoints instead)*

---

**Description**

Archive a Report Template (deprecated, use archiving endpoints instead)

**Usage**

templates\_delete\_reports(id)

**Arguments**

id                    integer required.

**Value**

An empty HTTP response

---

templates\_delete\_reports\_shares\_groups

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

templates\_delete\_reports\_shares\_groups(id, group\_id)

**Arguments**

id                    integer required. The ID of the resource that is shared.  
group\_id            integer required. The ID of the group.

**Value**

An empty HTTP response

templates\_delete\_reports\_shares\_users

*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
templates_delete_reports_shares_users(id, user_id)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_id	integer required. The ID of the user.

**Value**

An empty HTTP response

---

templates\_delete\_scripts

*Archive a Script Template (deprecated, use archiving endpoints instead)*

---

**Description**

Archive a Script Template (deprecated, use archiving endpoints instead)

**Usage**

```
templates_delete_scripts(id)
```

**Arguments**

id	integer required.
----	-------------------

**Value**

An empty HTTP response

---

`templates_delete_scripts_projects`*Remove a Script Template from a project*

---

**Description**

Remove a Script Template from a project

**Usage**

```
templates_delete_scripts_projects(id, project_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the Script Template.
<code>project_id</code>	integer required. The ID of the project.

**Value**

An empty HTTP response

---

`templates_delete_scripts_shares_groups`*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

```
templates_delete_scripts_shares_groups(id, group_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>group_id</code>	integer required. The ID of the group.

**Value**

An empty HTTP response

---

`templates_delete_scripts_shares_users`*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

```
templates_delete_scripts_shares_users(id, user_id)
```

**Arguments**

<code>id</code>	integer required. The ID of the resource that is shared.
<code>user_id</code>	integer required. The ID of the user.

**Value**

An empty HTTP response

---

`templates_get_reports` *Get a Report Template*

---

**Description**

Get a Report Template

**Usage**

```
templates_get_reports(id)
```

**Arguments**

<code>id</code>	integer required.
-----------------	-------------------

**Value**

A list containing the following elements:

<code>id</code>	integer,
<code>name</code>	string, The name of the template.
<code>category</code>	string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz
<code>createdAt</code>	string,

updatedAt	string,
useCount	integer, The number of uses of this template.
archived	boolean, Whether the template has been archived.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
techReviewed	boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
authCodeUrl	string, A URL to the template's stored code body.
provideAPIKey	boolean, Whether reports based on this template request an API Key from the report viewer.
hidden	boolean, The hidden status of the item.

---

templates\_get\_scripts *Get a Script Template*

---

## Description

Get a Script Template

## Usage

```
templates_get_scripts(id)
```

## Arguments

id integer required.

## Value

A list containing the following elements:

id	integer,
public	boolean, If the template is public or not.
scriptId	integer, The id of the script that this template uses.
scriptType	string, The type of the template's backing script (e.g SQL, Container, Python, R, JavaScript)
userContext	string, The user context of the script that this template uses.
name	string, The name of the template.
category	string, The category of this template.

note	string, A note describing what this template is used for; custom scripts created off this template will display this description.
createdAt	string,
updatedAt	string,
useCount	integer, The number of uses of this template.
uiReportId	integer, The id of the report that this template uses.
techReviewed	boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
archived	boolean, Whether the template has been archived.
hidden	boolean, The hidden status of the item.

---

templates\_list\_reports

*List Report Templates*

---

### Description

List Report Templates

### Usage

```
templates_list_reports(
  hidden = NULL,
  category = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

### Arguments

hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
category	string optional. A category to filter results by, one of: dataset-viz
limit	integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to name. Must be one of: name, updated_at, created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.



**Value**

An array containing the following fields:

id	integer,
name	string, The name of the template.
category	string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz
createdAt	string,
updatedAt	string,
useCount	integer, The number of uses of this template.
archived	boolean, Whether the template has been archived.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
techReviewed	boolean, Whether this template has been audited by Civis for security vulnerability and correctness.

---

templates\_list\_reports\_shares

*List users and groups permissioned on this object*

---

**Description**

List users and groups permissioned on this object

**Usage**

templates\_list\_reports\_shares(id)

**Arguments**

id	integer required. The ID of the resource that is shared.
----	--

**Value**

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
---------	---

writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

templates\_list\_scripts

*List Script Templates*

---

## Description

List Script Templates

## Usage

```
templates_list_scripts(
    hidden = NULL,
    category = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

## Arguments

hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
category	string optional. A category to filter results by, one of: import, export, enhancement, model, and script
limit	integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to name. Must be one of: name, updated_at, created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

**Value**

An array containing the following fields:

id	integer,
public	boolean, If the template is public or not.
scriptId	integer, The id of the script that this template uses.
userContext	string, The user context of the script that this template uses.
name	string, The name of the template.
category	string, The category of this template.
createdAt	string,
updatedAt	string,
useCount	integer, The number of uses of this template.
uiReportId	integer, The id of the report that this template uses.
techReviewed	boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
archived	boolean, Whether the template has been archived.

---

templates\_list\_scripts\_projects

*List the projects a Script Template belongs to*

---

**Description**

List the projects a Script Template belongs to

**Usage**

```
templates_list_scripts_projects(id, hidden = NULL)
```

**Arguments**

id	integer required. The ID of the Script Template.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> </ul>

	<ul style="list-style-type: none"> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

templates\_list\_scripts\_shares

*List users and groups permissioned on this object*

---

### Description

List users and groups permissioned on this object

### Usage

templates\_list\_scripts\_shares(id)

### Arguments

id integer required. The ID of the resource that is shared.

### Value

An array containing the following fields:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements:

- users array,
  - groups array,
- totalUserShares  
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- totalGroupShares  
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

 templates\_patch\_reports

*Update some attributes of this Report Template*

---

## Description

Update some attributes of this Report Template

## Usage

```
templates_patch_reports(
  id,
  name = NULL,
  category = NULL,
  archived = NULL,
  code_body = NULL,
  provide_api_key = NULL
)
```

## Arguments

- |                 |  |
|-----------------|--|
| id              | integer required.  |
| name            | string optional. The name of the template.   |
| category        | string optional. The category of this report template. Can be left blank. Acceptable values are: dataset-viz |
| archived        | boolean optional. Whether the template has been archived.  |
| code_body       | string optional. The code for the Template body.   |
| provide_api_key | boolean optional. Whether reports based on this template request an API Key from the report viewer.          |

**Value**

A list containing the following elements:

id	integer,
name	string, The name of the template.
category	string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz
createdAt	string,
updatedAt	string,
useCount	integer, The number of uses of this template.
archived	boolean, Whether the template has been archived.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
techReviewed	boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
authCodeUrl	string, A URL to the template's stored code body.
provideAPIKey	boolean, Whether reports based on this template request an API Key from the report viewer.
hidden	boolean, The hidden status of the item.

---

templates\_patch\_scripts

*Update some attributes of this Script Template*

---

**Description**

Update some attributes of this Script Template

**Usage**

```
templates_patch_scripts(
  id,
  name = NULL,
  note = NULL,
  ui_report_id = NULL,
  archived = NULL
)
```

**Arguments**

id	integer required.
name	string optional. The name of the template.
note	string optional. A note describing what this template is used for; custom scripts created off this template will display this description.
ui_report_id	integer optional. The id of the report that this template uses.
archived	boolean optional. Whether the template has been archived.

**Value**

A list containing the following elements:

id	integer,
public	boolean, If the template is public or not.
scriptId	integer, The id of the script that this template uses.
scriptType	string, The type of the template's backing script (e.g SQL, Container, Python, R, JavaScript)
userContext	string, The user context of the script that this template uses.
name	string, The name of the template.
category	string, The category of this template.
note	string, A note describing what this template is used for; custom scripts created off this template will display this description.
createdAt	string,
updatedAt	string,
useCount	integer, The number of uses of this template.
uiReportId	integer, The id of the report that this template uses.
techReviewed	boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
archived	boolean, Whether the template has been archived.
hidden	boolean, The hidden status of the item.

---

templates\_post\_reports

*Create a Report Template*

---

**Description**

Create a Report Template

**Usage**

```

templates_post_reports(
  name,
  code_body,
  category = NULL,
  archived = NULL,
  provide_api_key = NULL,
  hidden = NULL
)

```

**Arguments**

name	string required. The name of the template.
code_body	string required. The code for the Template body.
category	string optional. The category of this report template. Can be left blank. Acceptable values are: dataset-viz
archived	boolean optional. Whether the template has been archived.
provide_api_key	boolean optional. Whether reports based on this template request an API Key from the report viewer.
hidden	boolean optional. The hidden status of the item.

**Value**

A list containing the following elements:

id	integer,
name	string, The name of the template.
category	string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz
createdAt	string,
updatedAt	string,
useCount	integer, The number of uses of this template.
archived	boolean, Whether the template has been archived.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
techReviewed	boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
authCodeUrl	string, A URL to the template's stored code body.



provideAPIKey	boolean, Whether reports based on this template request an API Key from the report viewer.
hidden	boolean, The hidden status of the item.

---

templates\_post\_reports\_review

*Review a template for security vulnerability and correctness (admin-only)*

---

## Description

Review a template for security vulnerability and correctness (admin-only)

## Usage

templates\_post\_reports\_review(id, status)

## Arguments

id	integer required. The ID of the item.
status	boolean required. Whether this item has been reviewed.

## Value

A list containing the following elements:

id	integer,
name	string, The name of the template.
category	string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz
createdAt	string,
updatedAt	string,
useCount	integer, The number of uses of this template.
archived	boolean, Whether the template has been archived.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
techReviewed	boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
authCodeUrl	string, A URL to the template's stored code body.
provideAPIKey	boolean, Whether reports based on this template request an API Key from the report viewer.
hidden	boolean, The hidden status of the item.

---

 templates\_post\_scripts

*Create a Script Template*


---

## Description

Create a Script Template

## Usage

```
templates_post_scripts(
    script_id,
    name,
    note = NULL,
    ui_report_id = NULL,
    archived = NULL,
    hidden = NULL
)
```

## Arguments

script_id	integer required. The id of the script that this template uses.
name	string required. The name of the template.
note	string optional. A note describing what this template is used for; custom scripts created off this template will display this description.
ui_report_id	integer optional. The id of the report that this template uses.
archived	boolean optional. Whether the template has been archived.
hidden	boolean optional. The hidden status of the item.

## Value

A list containing the following elements:

id	integer,
public	boolean, If the template is public or not.
scriptId	integer, The id of the script that this template uses.
scriptType	string, The type of the template's backing script (e.g SQL, Container, Python, R, JavaScript)
userContext	string, The user context of the script that this template uses.
name	string, The name of the template.
category	string, The category of this template.
note	string, A note describing what this template is used for; custom scripts created off this template will display this description.

createdAt	string,
updatedAt	string,
useCount	integer, The number of uses of this template.
uiReportId	integer, The id of the report that this template uses.
techReviewed	boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
archived	boolean, Whether the template has been archived.
hidden	boolean, The hidden status of the item.

---

templates\_post\_scripts\_review

*Review a template for security vulnerability and correctness (admin-only)*

---

### Description

Review a template for security vulnerability and correctness (admin-only)

### Usage

templates\_post\_scripts\_review(id, status)

### Arguments

id	integer required. The ID of the item.
status	boolean required. Whether this item has been reviewed.

### Value

A list containing the following elements:

id	integer,
public	boolean, If the template is public or not.
scriptId	integer, The id of the script that this template uses.
scriptType	string, The type of the template's backing script (e.g SQL, Container, Python, R, JavaScript)
userContext	string, The user context of the script that this template uses.
name	string, The name of the template.
category	string, The category of this template.
note	string, A note describing what this template is used for; custom scripts created off this template will display this description.
createdAt	string,
updatedAt	string,

useCount	integer, The number of uses of this template.
uiReportId	integer, The id of the report that this template uses.
techReviewed	boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
archived	boolean, Whether the template has been archived.
hidden	boolean, The hidden status of the item.

---

templates\_put\_reports *Replace all attributes of this Report Template*

---

### Description

Replace all attributes of this Report Template

### Usage

```
templates_put_reports(
  id,
  name,
  code_body,
  category = NULL,
  archived = NULL,
  provide_api_key = NULL
)
```

### Arguments

id	integer required.
name	string required. The name of the template.
code_body	string required. The code for the Template body.
category	string optional. The category of this report template. Can be left blank. Acceptable values are: dataset-viz
archived	boolean optional. Whether the template has been archived.
provide_api_key	boolean optional. Whether reports based on this template request an API Key from the report viewer.

### Value

A list containing the following elements:

id	integer,
name	string, The name of the template.
category	string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz

createdAt	string,
updatedAt	string,
useCount	integer, The number of uses of this template.
archived	boolean, Whether the template has been archived.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
techReviewed	boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
authCodeUrl	string, A URL to the template's stored code body.
provideAPIKey	boolean, Whether reports based on this template request an API Key from the report viewer.
hidden	boolean, The hidden status of the item.

---

templates\_put\_reports\_shares\_groups

*Set the permissions groups has on this object*

---

## Description

Set the permissions groups has on this object

## Usage

```
templates_put_reports_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

## Arguments

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

templates\_put\_reports\_shares\_users

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
templates_put_reports_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
user_ids	array required. An array of one or more user IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

templates\_put\_scripts *Replace all attributes of this Script Template*

---

**Description**

Replace all attributes of this Script Template

**Usage**

```
templates_put_scripts(
  id,
  name,
  note = NULL,
  ui_report_id = NULL,
  archived = NULL
)
```

**Arguments**

id	integer required.
name	string required. The name of the template.
note	string optional. A note describing what this template is used for; custom scripts created off this template will display this description.
ui_report_id	integer optional. The id of the report that this template uses.
archived	boolean optional. Whether the template has been archived.

**Value**

A list containing the following elements:

id	integer,
public	boolean, If the template is public or not.
scriptId	integer, The id of the script that this template uses.
scriptType	string, The type of the template's backing script (e.g SQL, Container, Python, R, JavaScript)
userContext	string, The user context of the script that this template uses.
name	string, The name of the template.
category	string, The category of this template.
note	string, A note describing what this template is used for; custom scripts created off this template will display this description.
createdAt	string,
updatedAt	string,
useCount	integer, The number of uses of this template.
uiReportId	integer, The id of the report that this template uses.
techReviewed	boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
archived	boolean, Whether the template has been archived.
hidden	boolean, The hidden status of the item.

---

templates\_put\_scripts\_projects

*Add a Script Template to a project*

---

**Description**

Add a Script Template to a project

**Usage**

templates\_put\_scripts\_projects(id, project\_id)

**Arguments**

id	integer required. The ID of the Script Template.
project_id	integer required. The ID of the project.

**Value**

An empty HTTP response



---

 templates\_put\_scripts\_shares\_groups

*Set the permissions groups has on this object*


---

**Description**

Set the permissions groups has on this object

**Usage**

```
templates_put_scripts_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

readers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
writers	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
owners	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares

integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

templates\_put\_scripts\_shares\_users

*Set the permissions users have on this object*

---

## Description

Set the permissions users have on this object

## Usage

```
templates_put_scripts_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

## Arguments

**id** integer required. The ID of the resource that is shared.

**user\_ids** array required. An array of one or more user IDs.

**permission\_level** string required. Options are: "read", "write", or "manage".

**share\_email\_body** string optional. Custom body text for e-mail sent on a share.

**send\_shared\_email** boolean optional. Send email to the recipients of a share.

## Value

A list containing the following elements:

**readers** list, A list containing the following elements:

- users array,
- groups array,

**writers** list, A list containing the following elements:

- users array,
- groups array,

**owners** list, A list containing the following elements:

- users array,

- groups array,
- totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

transfer_table	<i>Transfer a table from one location to another.</i>
----------------	---

---

### Description

Transfer a table from one location to another.

### Usage

```
transfer_table(
  source_db,
  dest_db,
  source_table,
  dest_table,
  job_name = NULL,
  source_credential_id = NULL,
  dest_credential_id = NULL,
  interval = NULL,
  verbose = FALSE,
  advanced_options = NULL
)
```

### Arguments

- source\_db string or int, The name of the database where the source table is located. Optionally, could be the database ID.
- dest\_db string or int, The name of the database where the table will be transferred. Optionally, could be the database ID.
- source\_table string, Full name of the table to transfer, e.g., "schema.table".
- dest\_table string, Full name of the table in the destination database, e.g., "schema.table".
- job\_name string, optional, A name to give the job. If omitted, a random job name will be used.
- source\_credential\_id string or int, Optional credential ID for the source database. If NULL, the default credential will be used.
- dest\_credential\_id string or int, Optional credential ID for the source database. If NULL, the default credential will be used.

interval	Number of seconds to wait between checks for job completion. If NULL, the default exponential backoff from <code>await</code> will be used.
verbose	bool, Set to TRUE to print intermediate progress indicators.
advanced_options	A list of advanced options for the sync. See <a href="#">imports_post_syncs</a> for details.

**Value**

A `civis_api` object.

**See Also**

Other tables: [get\\_table\\_id\(\)](#), [refresh\\_table\(\)](#)

**Examples**

```
## Not run:
transfer_table(source_db='Cluster A', dest_db='Cluster B',
               source_table='schma.tbl', dest_table='schma.tbl')

## End(Not run)
```

---

`users_delete_api_keys` *Revoke the specified API key*

---

**Description**

Revoke the specified API key

**Usage**

```
users_delete_api_keys(id, key_id)
```

**Arguments**

<code>id</code>	string required. The ID of the user or 'me'.
<code>key_id</code>	integer required. The ID of the API key.

**Value**

A list containing the following elements:

<code>id</code>	integer, The ID of the API key.
<code>name</code>	string, The name of the API key.
<code>expiresAt</code>	string, The date and time when the key expired.
<code>createdAt</code>	string, The date and time when the key was created.
<code>revokedAt</code>	string, The date and time when the key was revoked.

lastUsedAt	string, The date and time when the key was last used.
scopes	array, The scopes which the key is permissioned on.
useCount	integer, The number of times the key has been used.
expired	boolean, True if the key has expired.
active	boolean, True if the key has neither expired nor been revoked.
constraints	array, An array containing the following fields: <ul style="list-style-type: none"><li>• constraint string, The path matcher of the constraint.</li><li>• constraintType string, The type of constraint (exact/prefix/regex/verb).</li><li>• getAllowed boolean, Whether the constraint allows GET requests.</li><li>• headAllowed boolean, Whether the constraint allows HEAD requests.</li><li>• postAllowed boolean, Whether the constraint allows POST requests.</li><li>• putAllowed boolean, Whether the constraint allows PUT requests.</li><li>• patchAllowed boolean, Whether the constraint allows PATCH requests.</li><li>• deleteAllowed boolean, Whether the constraint allows DELETE requests.</li></ul>

---

users\_delete\_me\_favorites

*Unfavorite an item*

---

### **Description**

Unfavorite an item

### **Usage**

```
users_delete_me_favorites(id)
```

### **Arguments**

id integer required. The id of the favorite.

### **Value**

An empty HTTP response

---

users_get	<i>Show info about a user</i>
-----------	-------------------------------

---

**Description**

Show info about a user

**Usage**

```
users_get(id)
```

**Arguments**

id	integer required. The ID of this user.
----	--

**Value**

A list containing the following elements:

id	integer, The ID of this user.
user	string, The username of this user.
name	string, The name of this user.
email	string, The email of this user.
active	boolean, The account status of this user.
primaryGroupId	integer, The ID of the primary group of this user.
groups	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this group.</li> <li>• name string, The name of this group.</li> <li>• organizationId integer, The organization associated with this group.</li> </ul>
city	string, The city of this user.
state	string, The state of this user.
timeZone	string, The time zone of this user.
initials	string, The initials of this user.
department	string, The department of this user.
title	string, The title of this user.
githubUsername	string, The GitHub username of this user.
prefersSmsOtp	boolean, The preference for phone authorization of this user
vpnEnabled	boolean, The availability of vpn for this user.
ssoDisabled	boolean, The availability of SSO for this user.
otpRequiredForLogin	boolean, The two factor authentication requirement for this user.

exemptFromOrgSmsOtpDisabled	boolean, Whether the user has SMS OTP enabled on an individual level. This field does not matter if the org does not have SMS OTP disabled.
smsOtpAllowed	boolean, Whether the user is allowed to receive two factor authentication codes via SMS.
robot	boolean, Whether the user is a robot.
phone	string, The phone number of this user.
organizationSlug	string, The slug of the organization the user belongs to.
organizationSSODisableCapable	boolean, The user's organization's ability to disable sso for their users.
organizationLoginType	string, The user's organization's login type.
organizationSmsOtpDisabled	boolean, Whether the user's organization has SMS OTP disabled.

---

users\_get\_api\_keys      *Show the specified API key*

---

### Description

Show the specified API key

### Usage

```
users_get_api_keys(id, key_id)
```

### Arguments

id	string required. The ID of the user or 'me'.
key_id	integer required. The ID of the API key.

### Value

A list containing the following elements:

id	integer, The ID of the API key.
name	string, The name of the API key.
expiresAt	string, The date and time when the key expired.
createdAt	string, The date and time when the key was created.
revokedAt	string, The date and time when the key was revoked.
lastUsedAt	string, The date and time when the key was last used.
scopes	array, The scopes which the key is permissioned on.
useCount	integer, The number of times the key has been used.

expired	boolean, True if the key has expired.
active	boolean, True if the key has neither expired nor been revoked.
constraints	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• constraint string, The path matcher of the constraint.</li> <li>• constraintType string, The type of constraint (exact/prefix/regex/verb).</li> <li>• getAllowed boolean, Whether the constraint allows GET requests.</li> <li>• headAllowed boolean, Whether the constraint allows HEAD requests.</li> <li>• postAllowed boolean, Whether the constraint allows POST requests.</li> <li>• putAllowed boolean, Whether the constraint allows PUT requests.</li> <li>• patchAllowed boolean, Whether the constraint allows PATCH requests.</li> <li>• deleteAllowed boolean, Whether the constraint allows DELETE requests.</li> </ul>

---

users_list	<i>List users</i>
------------	-------------------

---

### Description

List users

### Usage

```
users_list(
    feature_flag = NULL,
    account_status = NULL,
    query = NULL,
    group_id = NULL,
    organization_id = NULL,
    exclude_groups = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

### Arguments

feature_flag	string optional. Return users that have a feature flag enabled.
account_status	string optional. The account status by which to filter users. May be one of "active", "inactive", or "all".
query	string optional. Return users who match the given query, based on name, user, and email.
group_id	integer optional. The ID of the group by which to filter users. Cannot be present if organization_id is.



organization_id	integer optional. The ID of the organization by which to filter users. Cannot be present if group_id is.
exclude_groups	boolean optional. Whether or to exclude users' groups. Default: false.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 10000.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to name. Must be one of: name, user.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

**Value**

An array containing the following fields:

id	integer, The ID of this user.
user	string, The username of this user.
name	string, The name of this user.
email	string, The email of this user.
active	boolean, The account status of this user.
primaryGroupId	integer, The ID of the primary group of this user.
groups	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this group.</li> <li>• name string, The name of this group.</li> <li>• organizationId integer, The organization associated with this group.</li> </ul>
createdAt	string, The date and time when the user was created.
currentSignInAt	string, The date and time when the user's current session began.

---

users\_list\_api\_keys    *Show API keys belonging to the specified user*

---

**Description**

Show API keys belonging to the specified user

**Usage**

```
users_list_api_keys(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

id	string required. The ID of the user or 'me'.
limit	integer optional. Number of results to return. Defaults to its maximum of 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The ID of the API key.
name	string, The name of the API key.
expiresAt	string, The date and time when the key expired.
createdAt	string, The date and time when the key was created.
revokedAt	string, The date and time when the key was revoked.
lastUsedAt	string, The date and time when the key was last used.
scopes	array, The scopes which the key is permissioned on.
useCount	integer, The number of times the key has been used.
expired	boolean, True if the key has expired.
active	boolean, True if the key has neither expired nor been revoked.
constraintCount	integer, The number of constraints on the created key

---

 users\_list\_me

*Show info about the logged-in user*


---

**Description**

Show info about the logged-in user

**Usage**

users\_list\_me()

**Value**

A list containing the following elements:

id	integer, The ID of this user.
name	string, This user's name.
email	string, This user's email address.
username	string, This user's username.
initials	string, This user's initials.
lastCheckedAnnouncements	string, The date and time at which the user last checked their announcements.
featureFlags	list, The feature flag settings for this user.
roles	array, The roles this user has, listed by slug.
preferences	list, This user's preferences.
customBranding	string, The branding of Platform for this user.
primaryGroupId	integer, The ID of the primary group of this user.
groups	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this group.</li> <li>• name string, The name of this group.</li> <li>• organizationId integer, The organization associated with this group.</li> </ul>
organizationName	string, The name of the organization the user belongs to.
organizationSlug	string, The slug of the organization the user belongs to.
organizationDefaultThemeId	integer, The ID of the organizations's default theme.
createdAt	string, The date and time when the user was created.
signInCount	integer, The number of times the user has signed in.
assumingRole	boolean, Whether the user is assuming a role or not.
assumingAdmin	boolean, Whether the user is assuming admin.
assumingAdminExpiration	string, When the user's admin role is set to expire.

---

users\_list\_me\_favorites

*List Favorites*

---

**Description**

List Favorites

**Usage**

```

users_list_me_favorites(
  object_id = NULL,
  object_type = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)

```

**Arguments**

object_id	integer optional. The id of the object. If specified as a query parameter, must also specify object_type parameter.
object_type	string optional. The type of the object that is favorited. Valid options: Project
limit	integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, object_type, object_id.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The id of the favorite.
objectId	integer, The id of the object. If specified as a query parameter, must also specify object_type parameter.
objectType	string, The type of the object that is favorited. Valid options: Project
objectName	string, The name of the object that is favorited.
createdAt	string, The time this favorite was created.

---

users_list_me_ui	<i>UI configuration for logged-in user</i>
------------------	--

---

**Description**

UI configuration for logged-in user

**Usage**

```
users_list_me_ui()
```

**Value**

A list containing the following elements:

id	integer, The ID of this user.
navigationMenus	list, Navigation menus visible to this user.
userMenus	list, User profile menu items available to this user.
userType	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• vendor boolean, This attribute is deprecated</li> <li>• media boolean, True if user has access to the Media Optimizer job type.</li> <li>• mainApp string, The slug for the main app for an app-only user account.</li> <li>• appCount integer, Number of apps this user has access to.</li> <li>• reportsOnly boolean, True if user is a reports-only user.</li> <li>• reportsCreator boolean, True if this user is allowed to create HTML reports.</li> </ul>
zendeskToken	string, JSON web token for this user's Zendesk widget.

---

users_patch	<i>Update info about a user (must be an admin or client user admin)</i>
-------------	---

---

**Description**

Update info about a user (must be an admin or client user admin)

**Usage**

```

users_patch(
  id,
  name = NULL,
  email = NULL,
  active = NULL,
  primary_group_id = NULL,
  city = NULL,
  state = NULL,
  time_zone = NULL,
  initials = NULL,
  department = NULL,
  title = NULL,
  prefers_sms_otp = NULL,
  group_ids = NULL,
  vpn_enabled = NULL,
  sso_disabled = NULL,
  otp_required_for_login = NULL,
  exempt_from_org_sms_otp_disabled = NULL,
  robot = NULL,
  phone = NULL,
  password = NULL
)

```

**Arguments**

id	integer required. The ID of this user.
name	string optional. The name of this user.
email	string optional. The email of this user.
active	boolean optional. The account status of this user.
primary_group_id	integer optional. The ID of the primary group of this user.
city	string optional. The city of this user.
state	string optional. The state of this user.
time_zone	string optional. The time zone of this user.
initials	string optional. The initials of this user.
department	string optional. The department of this user.
title	string optional. The title of this user.
prefers_sms_otp	boolean optional. The preference for phone authorization of this user
group_ids	array optional. An array of ids of all the groups this user is in.
vpn_enabled	boolean optional. The availability of vpn for this user.
sso_disabled	boolean optional. The availability of SSO for this user.
otp_required_for_login	boolean optional. The two factor authentication requirement for this user.
exempt_from_org_sms_otp_disabled	boolean optional. Whether the user has SMS OTP enabled on an individual level. This field does not matter if the org does not have SMS OTP disabled.
robot	boolean optional. Whether the user is a robot.
phone	string optional. The phone number of this user.
password	string optional. The password of this user.

**Value**

A list containing the following elements:

id	integer, The ID of this user.
user	string, The username of this user.
name	string, The name of this user.
email	string, The email of this user.
active	boolean, The account status of this user.
primaryGroupId	integer, The ID of the primary group of this user.
groups	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this group.</li> <li>• name string, The name of this group.</li> <li>• organizationId integer, The organization associated with this group.</li> </ul>

city	string, The city of this user.
state	string, The state of this user.
timeZone	string, The time zone of this user.
initials	string, The initials of this user.
department	string, The department of this user.
title	string, The title of this user.
githubUsername	string, The GitHub username of this user.
prefersSmsOtp	boolean, The preference for phone authorization of this user
vpnEnabled	boolean, The availability of vpn for this user.
ssoDisabled	boolean, The availability of SSO for this user.
otpRequiredForLogin	boolean, The two factor authentication requirement for this user.
exemptFromOrgSmsOtpDisabled	boolean, Whether the user has SMS OTP enabled on an individual level. This field does not matter if the org does not have SMS OTP disabled.
smsOtpAllowed	boolean, Whether the user is allowed to receive two factor authentication codes via SMS.
robot	boolean, Whether the user is a robot.
phone	string, The phone number of this user.
organizationSlug	string, The slug of the organization the user belongs to.
organizationSSODisableCapable	boolean, The user's organization's ability to disable sso for their users.
organizationLoginType	string, The user's organization's login type.
organizationSmsOtpDisabled	boolean, Whether the user's organization has SMS OTP disabled.

---

users\_patch\_me      *Update info about the logged-in user*

---

### Description

Update info about the logged-in user

### Usage

```
users_patch_me(preferences = NULL, last_checked_announcements = NULL)
```

## Arguments

- preferences      list optional. A list containing the following elements:
- appIndexOrderField string, Order field for the apps index pages.
  - appIndexOrderDir string, Order direction for the apps index pages.
  - resultIndexOrderField string, Order field for the results index page.
  - resultIndexOrderDir string, Order direction for the results index page.
  - resultIndexTypeFilter string, Type filter for the results index page.
  - resultIndexAuthorFilter string, Author filter for the results index page.
  - resultIndexArchivedFilter string, Archived filter for the results index page.
  - importIndexOrderField string, Order field for the imports index page.
  - importIndexOrderDir string, Order direction for the imports index page.
  - importIndexTypeFilter string, Type filter for the imports index page.
  - importIndexAuthorFilter string, Author filter for the imports index page.
  - importIndexDestFilter string, Destination filter for the imports index page.
  - importIndexStatusFilter string, Status filter for the imports index page.
  - importIndexArchivedFilter string, Archived filter for the imports index page.
  - exportIndexOrderField string, Order field for the exports index page.
  - exportIndexOrderDir string, Order direction for the exports index page.
  - exportIndexTypeFilter string, Type filter for the exports index page.
  - exportIndexAuthorFilter string, Author filter for the exports index page.
  - exportIndexStatusFilter string, Status filter for the exports index page.
  - modelIndexOrderField string, Order field for the models index page.
  - modelIndexOrderDir string, Order direction for the models index page.
  - modelIndexAuthorFilter string, Author filter for the models index page.
  - modelIndexStatusFilter string, Status filter for the models index page.
  - modelIndexArchivedFilter string, Archived filter for the models index page.
  - modelIndexThumbnailView string, Thumbnail view for the models index page.
  - scriptIndexOrderField string, Order field for the scripts index page.
  - scriptIndexOrderDir string, Order direction for the scripts index page.
  - scriptIndexTypeFilter string, Type filter for the scripts index page.
  - scriptIndexAuthorFilter string, Author filter for the scripts index page.
  - scriptIndexStatusFilter string, Status filter for the scripts index page.
  - scriptIndexArchivedFilter string, Archived filter for the scripts index page.
  - projectIndexOrderField string, Order field for the projects index page.
  - projectIndexOrderDir string, Order direction for the projects index page.
  - projectIndexAuthorFilter string, Author filter for the projects index page.
  - projectIndexArchivedFilter string, Archived filter for the projects index page.
  - reportIndexThumbnailView string, Thumbnail view for the reports index page.
  - projectDetailOrderField string, Order field for projects detail pages.
  - projectDetailOrderDir string, Order direction for projects detail pages.



- projectDetailAuthorFilter string, Author filter for projects detail pages.
- projectDetailTypeFilter string, Type filter for projects detail pages.
- projectDetailArchivedFilter string, Archived filter for the projects detail pages.
- enhancementIndexOrderField string, Order field for the enhancements index page.
- enhancementIndexOrderDir string, Order direction for the enhancements index page.
- enhancementIndexAuthorFilter string, Author filter for the enhancements index page.
- enhancementIndexArchivedFilter string, Archived filter for the enhancements index page.
- preferredServerId integer, ID of preferred server.
- civisExploreSkipIntro boolean, Whether the user is shown steps for each exploration.
- registrationIndexOrderField string, Order field for the registrations index page.
- registrationIndexOrderDir string, Order direction for the registrations index page.
- registrationIndexStatusFilter string, Status filter for the registrations index page.
- upgradeRequested string, Whether a free trial upgrade has been requested.
- welcomeOrderField string, Order direction for the welcome page.
- welcomeOrderDir string, Order direction for the welcome page.
- welcomeAuthorFilter string, Status filter for the welcome page.
- welcomeStatusFilter string, Status filter for the welcome page.
- welcomeArchivedFilter string, Status filter for the welcome page.
- dataPaneWidth string, Width of the data pane when expanded.
- dataPaneCollapsed string, Whether the data pane is collapsed.
- notebookOrderField string, Order field for the notebooks page.
- notebookOrderDir string, Order direction for the notebooks page.
- notebookAuthorFilter string, Author filter for the notebooks page.
- notebookArchivedFilter string, Archived filter for the notebooks page.
- notebookStatusFilter string, Status filter for the notebooks page.
- workflowIndexOrderField string, Order field for the workflows page.
- workflowIndexOrderDir string, Order direction for the workflows page.
- workflowIndexAuthorFilter string, Author filter for the workflows page.
- workflowIndexArchivedFilter string, Archived filter for the workflows page.
- serviceOrderField string, Order field for the services page.
- serviceOrderDir string, Order direction for the services page.
- serviceAuthorFilter string, Author filter for the services page.
- serviceArchivedFilter string, Archived filter for the services page.

last\_checked\_announcements

string optional. The date and time at which the user last checked their announcements.

**Value**

A list containing the following elements:

id	integer, The ID of this user.
name	string, This user's name.
email	string, This user's email address.
username	string, This user's username.
initials	string, This user's initials.
lastCheckedAnnouncements	string, The date and time at which the user last checked their announcements.
featureFlags	list, The feature flag settings for this user.
roles	array, The roles this user has, listed by slug.
preferences	list, This user's preferences.
customBranding	string, The branding of Platform for this user.
primaryGroupId	integer, The ID of the primary group of this user.
groups	array, An array containing the following fields: <ul style="list-style-type: none"><li>• id integer, The ID of this group.</li><li>• name string, The name of this group.</li><li>• organizationId integer, The organization associated with this group.</li></ul>
organizationName	string, The name of the organization the user belongs to.
organizationSlug	string, The slug of the organization the user belongs to.
organizationDefaultThemeId	integer, The ID of the organizations's default theme.
createdAt	string, The date and time when the user was created.
signInCount	integer, The number of times the user has signed in.
assumingRole	boolean, Whether the user is assuming a role or not.
assumingAdmin	boolean, Whether the user is assuming admin.
assumingAdminExpiration	string, When the user's admin role is set to expire.

---

users_post	<i>Create a new user (must be an admin or client user admin)</i>
------------	--

---

### Description

Create a new user (must be an admin or client user admin)

### Usage

```
users_post(  
  name,  
  email,  
  primary_group_id,  
  user,  
  active = NULL,  
  city = NULL,  
  state = NULL,  
  time_zone = NULL,  
  initials = NULL,  
  department = NULL,  
  title = NULL,  
  prefers_sms_otp = NULL,  
  group_ids = NULL,  
  vpn_enabled = NULL,  
  sso_disabled = NULL,  
  otp_required_for_login = NULL,  
  exempt_from_org_sms_otp_disabled = NULL,  
  robot = NULL,  
  send_email = NULL  
)
```

### Arguments

name	string required. The name of this user.
email	string required. The email of this user.
primary_group_id	integer required. The ID of the primary group of this user.
user	string required. The username of this user.
active	boolean optional. The account status of this user.
city	string optional. The city of this user.
state	string optional. The state of this user.
time_zone	string optional. The time zone of this user.
initials	string optional. The initials of this user.
department	string optional. The department of this user.

title	string optional. The title of this user.
prefers_sms_otp	boolean optional. The preference for phone authorization of this user
group_ids	array optional. An array of ids of all the groups this user is in.
vpn_enabled	boolean optional. The availability of vpn for this user.
sso_disabled	boolean optional. The availability of SSO for this user.
otp_required_for_login	boolean optional. The two factor authentication requirement for this user.
exempt_from_org_sms_otp_disabled	boolean optional. Whether the user has SMS OTP enabled on an individual level. This field does not matter if the org does not have SMS OTP disabled.
robot	boolean optional. Whether the user is a robot.
send_email	boolean optional. Whether the user will receive a welcome email.

### Value

A list containing the following elements:

id	integer, The ID of this user.
user	string, The username of this user.
name	string, The name of this user.
email	string, The email of this user.
active	boolean, The account status of this user.
primaryGroupId	integer, The ID of the primary group of this user.
groups	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this group.</li> <li>• name string, The name of this group.</li> <li>• organizationId integer, The organization associated with this group.</li> </ul>
city	string, The city of this user.
state	string, The state of this user.
timeZone	string, The time zone of this user.
initials	string, The initials of this user.
department	string, The department of this user.
title	string, The title of this user.
githubUsername	string, The GitHub username of this user.
prefersSmsOtp	boolean, The preference for phone authorization of this user
vpnEnabled	boolean, The availability of vpn for this user.
ssoDisabled	boolean, The availability of SSO for this user.
otpRequiredForLogin	boolean, The two factor authentication requirement for this user.

exemptFromOrgSmsOtpDisabled	boolean, Whether the user has SMS OTP enabled on an individual level. This field does not matter if the org does not have SMS OTP disabled.
smsOtpAllowed	boolean, Whether the user is allowed to receive two factor authentication codes via SMS.
robot	boolean, Whether the user is a robot.
phone	string, The phone number of this user.
organizationSlug	string, The slug of the organization the user belongs to.
organizationSSODisableCapable	boolean, The user's organization's ability to disable sso for their users.
organizationLoginType	string, The user's organization's login type.
organizationSmsOtpDisabled	boolean, Whether the user's organization has SMS OTP disabled.

---

users\_post\_api\_keys    *Create a new API key belonging to the logged-in user*

---

## Description

Create a new API key belonging to the logged-in user

## Usage

```
users_post_api_keys(id, expires_in, name, constraints = NULL)
```

## Arguments

id	string required. The ID of the user or 'me'.
expires_in	integer required. The number of seconds the key should last for.
name	string required. The name of the API key.
constraints	array optional. An array containing the following fields: <ul style="list-style-type: none"> <li>• constraint string, The path matcher of the constraint.</li> <li>• constraintType string, The type of constraint (exact/prefix/regex/verb).</li> <li>• getAllowed boolean, Whether the constraint allows GET requests.</li> <li>• headAllowed boolean, Whether the constraint allows HEAD requests.</li> <li>• postAllowed boolean, Whether the constraint allows POST requests.</li> <li>• putAllowed boolean, Whether the constraint allows PUT requests.</li> <li>• patchAllowed boolean, Whether the constraint allows PATCH requests.</li> <li>• deleteAllowed boolean, Whether the constraint allows DELETE requests.</li> </ul>

**Value**

A list containing the following elements:

id	integer, The ID of the API key.
name	string, The name of the API key.
expiresAt	string, The date and time when the key expired.
createdAt	string, The date and time when the key was created.
revokedAt	string, The date and time when the key was revoked.
lastUsedAt	string, The date and time when the key was last used.
scopes	array, The scopes which the key is permissioned on.
useCount	integer, The number of times the key has been used.
expired	boolean, True if the key has expired.
active	boolean, True if the key has neither expired nor been revoked.
constraints	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• constraint string, The path matcher of the constraint.</li> <li>• constraintType string, The type of constraint (exact/prefix/regex/verb).</li> <li>• getAllowed boolean, Whether the constraint allows GET requests.</li> <li>• headAllowed boolean, Whether the constraint allows HEAD requests.</li> <li>• postAllowed boolean, Whether the constraint allows POST requests.</li> <li>• putAllowed boolean, Whether the constraint allows PUT requests.</li> <li>• patchAllowed boolean, Whether the constraint allows PATCH requests.</li> <li>• deleteAllowed boolean, Whether the constraint allows DELETE requests.</li> </ul>
token	string, The API key.

---

users\_post\_me\_favorites

*Favorite an item*

---

**Description**

Favorite an item

**Usage**

users\_post\_me\_favorites(object\_id, object\_type)

**Arguments**

object_id	integer required. The id of the object. If specified as a query parameter, must also specify object_type parameter.
object_type	string required. The type of the object that is favorited. Valid options: Project

**Value**

A list containing the following elements:

id	integer, The id of the favorite.
objectId	integer, The id of the object. If specified as a query parameter, must also specify object_type parameter.
objectType	string, The type of the object that is favorited. Valid options: Project
objectName	string, The name of the object that is favorited.
createdAt	string, The time this favorite was created.

---

workflows\_delete\_projects

*Remove a Workflow from a project*

---

**Description**

Remove a Workflow from a project

**Usage**

workflows\_delete\_projects(id, project\_id)

**Arguments**

id	integer required. The ID of the Workflow.
project_id	integer required. The ID of the project.

**Value**

An empty HTTP response

---

workflows\_delete\_shares\_groups

*Revoke the permissions a group has on this object*

---

**Description**

Revoke the permissions a group has on this object

**Usage**

workflows\_delete\_shares\_groups(id, group\_id)

**Arguments**

id integer required. The ID of the resource that is shared.  
 group\_id integer required. The ID of the group.

**Value**

An empty HTTP response

---

workflows\_delete\_shares\_users  
*Revoke the permissions a user has on this object*

---

**Description**

Revoke the permissions a user has on this object

**Usage**

workflows\_delete\_shares\_users(id, user\_id)

**Arguments**

id integer required. The ID of the resource that is shared.  
 user\_id integer required. The ID of the user.

**Value**

An empty HTTP response

---

workflows\_get *Get a Workflow*

---

**Description**

Get a Workflow

**Usage**

workflows\_get(id)

**Arguments**

id integer required.



**Value**

A list containing the following elements:

id	integer, The ID for this workflow.
name	string, The name of this workflow.
description	string, A description of the workflow.
definition	string, The definition of the workflow in YAML format. Must not be specified if 'fromJobChain' is specified.
valid	boolean, The validity of the workflow definition.
validationErrors	string, The errors encountered when validating the workflow definition.
fileId	string, The file id for the s3 file containing the workflow configuration.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
allowConcurrentExecutions	boolean, Whether the workflow can execute when already running.
timeZone	string, The time zone of this workflow.
nextExecutionAt	string, The time of the next scheduled execution.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> </ul>

	<ul style="list-style-type: none"> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on</li> <li>• failureOn boolean, If failure email notifications are on</li> </ul>
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.
createdAt	string,
updatedAt	string,

---

workflows\_get\_executions

*Get a workflow execution*

---

### Description

Get a workflow execution

### Usage

```
workflows_get_executions(id, execution_id)
```

### Arguments

id	integer required. The ID for the workflow.
execution_id	integer required. The ID for the workflow execution.

### Value

A list containing the following elements:

id	integer, The ID for this workflow execution.
state	string, The state of this workflow execution.
mistralState	string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled
mistralStateInfo	string, The state info of this workflow as reported by mistral.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
definition	string, The definition of the workflow for this execution.

input	list, Key-value pairs defined for this execution.
includedTasks	array, The subset of workflow tasks selected to execute.
tasks	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The name of the task.</li> <li>• mistralState string, The state of this task. One of idle, waiting, running, delayed, success, error, or cancelled</li> <li>• mistralStateInfo string, Extra info associated with the state of the task.</li> <li>• runs array, The runs associated with this task, in descending order by id.</li> <li>• executions array, The executions run by this task, in descending order by id.</li> </ul>
startedAt	string, The time this execution started.
finishedAt	string, The time this execution finished.
createdAt	string, The time this execution was created.
updatedAt	string, The time this execution was last updated.

---

workflows\_get\_executions\_tasks

*Get a task of a workflow execution*


---

## Description

Get a task of a workflow execution

## Usage

```
workflows_get_executions_tasks(id, execution_id, task_name)
```

## Arguments

id	integer required. The ID for the workflow.
execution_id	integer required. The ID for the workflow execution.
task_name	string required. The URL-encoded name of the task.

## Value

A list containing the following elements:

name	string, The name of the task.
mistralState	string, The state of this task. One of idle, waiting, running, delayed, success, error, or cancelled
mistralStateInfo	string, Extra info associated with the state of the task.
runs	array, An array containing the following fields:

	<ul style="list-style-type: none"> <li>• id integer, The ID of the run.</li> <li>• jobId integer, The ID of the job associated with the run.</li> <li>• state string, The state of the run.</li> <li>• createdAt string, The time that the run was queued.</li> <li>• startedAt string, The time that the run started.</li> <li>• finishedAt string, The time that the run completed.</li> </ul>
executions	<p>array, An array containing the following fields:</p> <ul style="list-style-type: none"> <li>• id integer, The ID of the execution.</li> <li>• workflowId integer, The ID of the workflow associated with the execution.</li> <li>• state string, The state of this workflow execution.</li> <li>• createdAt string, The time this execution was created.</li> <li>• startedAt string, The time this execution started.</li> <li>• finishedAt string, The time this execution finished.</li> </ul>

---

workflows\_get\_git\_commits

*Get file contents at commit\_hash*

---

## Description

Get file contents at commit\_hash

## Usage

```
workflows_get_git_commits(id, commit_hash)
```

## Arguments

id	integer required. The ID of the file.
commit_hash	string required. The SHA (full or shortened) of the desired git commit.

## Value

A list containing the following elements:

content	string, The file's contents.
type	string, The file's type.
size	integer, The file's size.
fileHash	string, The SHA of the file.

---

workflows_list	<i>List Workflows</i>
----------------	-----------------------

---

**Description**

List Workflows

**Usage**

```
workflows_list(
  hidden = NULL,
  archived = NULL,
  author = NULL,
  state = NULL,
  scheduled = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
archived	string optional. The archival status of the requested item(s).
author	string optional. Author of the workflow. It accepts a comma-separated list of author ids.
state	array optional. State of the most recent execution. One or more of queued, running, succeeded, failed, cancelled, idle, and scheduled.
scheduled	boolean optional. If the workflow is scheduled.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The ID for this workflow.
----	------------------------------------

name	string, The name of this workflow.
description	string, A description of the workflow.
valid	boolean, The validity of the workflow definition.
fileId	string, The file id for the s3 file containing the workflow configuration.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
allowConcurrentExecutions	boolean, Whether the workflow can execute when already running.
timeZone	string, The time zone of this workflow.
nextExecutionAt	string, The time of the next scheduled execution.
archived	string, The archival status of the requested item(s).
createdAt	string,
updatedAt	string,

---

workflows\_list\_executions

*List workflow executions*

---

## Description

List workflow executions

## Usage

```
workflows_list_executions(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

id	integer required. The ID for this workflow.
limit	integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num	integer optional. Page number of the results to return. Defaults to the first page, 1.
order	string optional. The field on which to order the result set. Defaults to id. Must be one of: id, updated_at, created_at.
order_dir	string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

id	integer, The ID for this workflow execution.
state	string, The state of this workflow execution.
mistralState	string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled
mistralStateInfo	string, The state info of this workflow as reported by mistral.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
startedAt	string, The time this execution started.
finishedAt	string, The time this execution finished.
createdAt	string, The time this execution was created.
updatedAt	string, The time this execution was last updated.

---

workflows\_list\_git      *Get the git metadata attached to an item*

---

**Description**

Get the git metadata attached to an item

**Usage**

```
workflows_list_git(id)
```

**Arguments**

`id` integer required. The ID of the file.

**Value**

A list containing the following elements:

<code>gitRef</code>	string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
<code>gitBranch</code>	string, The git branch that the file is on.
<code>gitPath</code>	string, The path of the file in the repository.
<code>gitRepo</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• <code>id</code> integer, The ID for this git repository.</li> <li>• <code>repoUrl</code> string, The URL for this git repository.</li> <li>• <code>createdAt</code> string,</li> <li>• <code>updatedAt</code> string,</li> </ul>
<code>pullFromGit</code>	boolean, Automatically pull latest commit from git. Only works for scripts.

---

`workflows_list_git_commits`

*Get the git commits for an item*

---

**Description**

Get the git commits for an item

**Usage**

`workflows_list_git_commits(id)`

**Arguments**

`id` integer required. The ID of the file.

**Value**

A list containing the following elements:

<code>commitHash</code>	string, The SHA of the commit.
<code>authorName</code>	string, The name of the commit's author.
<code>date</code>	string, The commit's timestamp.
<code>message</code>	string, The commit message.



---

workflows\_list\_projects

*List the projects a Workflow belongs to*


---

### Description

List the projects a Workflow belongs to

### Usage

```
workflows_list_projects(id, hidden = NULL)
```

### Arguments

id	integer required. The ID of the Workflow.
hidden	boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

### Value

An array containing the following fields:

id	integer, The ID for this project.
author	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
name	string, The name of this project.
description	string, A description of the project.
users	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
autoShare	boolean,
createdAt	string,
updatedAt	string,
archived	string, The archival status of the requested item(s).

---

workflows\_list\_shares *List users and groups permissioned on this object*

---

### Description

List users and groups permissioned on this object

### Usage

```
workflows_list_shares(id)
```

### Arguments

`id` integer required. The ID of the resource that is shared.

### Value

An array containing the following fields:

<code>readers</code>	list, A list containing the following elements: <ul style="list-style-type: none"><li>• users array,</li><li>• groups array,</li></ul>
<code>writers</code>	list, A list containing the following elements: <ul style="list-style-type: none"><li>• users array,</li><li>• groups array,</li></ul>
<code>owners</code>	list, A list containing the following elements: <ul style="list-style-type: none"><li>• users array,</li><li>• groups array,</li></ul>
<code>totalUserShares</code>	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
<code>totalGroupShares</code>	integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

workflows_patch	<i>Update some attributes of this Workflow</i>
-----------------	--

---

## Description

Update some attributes of this Workflow

## Usage

```
workflows_patch(
  id,
  name = NULL,
  description = NULL,
  definition = NULL,
  schedule = NULL,
  allow_concurrent_executions = NULL,
  time_zone = NULL,
  notifications = NULL
)
```

## Arguments

id	integer required. The ID for this workflow.
name	string optional. The name of this workflow.
description	string optional. A description of the workflow.
definition	string optional. The definition of the workflow in YAML format. Must not be specified if 'fromJobChain' is specified.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
allow_concurrent_executions	boolean optional. Whether the workflow can execute when already running.
time_zone	string optional. The time zone of this workflow.
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> </ul>

- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on
- failureOn boolean, If failure email notifications are on

## Value

A list containing the following elements:

id	integer, The ID for this workflow.
name	string, The name of this workflow.
description	string, A description of the workflow.
definition	string, The definition of the workflow in YAML format. Must not be specified if 'fromJobChain' is specified.
valid	boolean, The validity of the workflow definition.
validationErrors	string, The errors encountered when validating the workflow definition.
fileId	string, The file id for the s3 file containing the workflow configuration.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
allowConcurrentExecutions	boolean, Whether the workflow can execute when already running.
timeZone	string, The time zone of this workflow.
nextExecutionAt	string, The time of the next scheduled execution.
notifications	list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on
- failureOn boolean, If failure email notifications are on

archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.
createdAt	string,
updatedAt	string,

---

workflows_post	<i>Create a Workflow</i>
----------------	--------------------------

---

## Description

Create a Workflow

## Usage

```
workflows_post(
  name,
  description = NULL,
  from_job_chain = NULL,
  definition = NULL,
  schedule = NULL,
  allow_concurrent_executions = NULL,
  time_zone = NULL,
  notifications = NULL,
  hidden = NULL
)
```

## Arguments

name	string required. The name of this workflow.
description	string optional. A description of the workflow.
from_job_chain	integer optional. If specified, create a workflow from the job chain this job is in, and inherit the schedule from the root of the chain.

definition	string optional. The definition of the workflow in YAML format. Must not be specified if 'fromJobChain' is specified.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
allow_concurrent_executions	boolean optional. Whether the workflow can execute when already running.
time_zone	string optional. The time zone of this workflow.
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on</li> <li>• failureOn boolean, If failure email notifications are on</li> </ul>
hidden	boolean optional. The hidden status of the item.

### Value

A list containing the following elements:

id	integer, The ID for this workflow.
name	string, The name of this workflow.
description	string, A description of the workflow.
definition	string, The definition of the workflow in YAML format. Must not be specified if 'fromJobChain' is specified.
valid	boolean, The validity of the workflow definition.
validationErrors	string, The errors encountered when validating the workflow definition.
fileId	string, The file id for the s3 file containing the workflow configuration.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> </ul>

	<ul style="list-style-type: none"><li>• username string, This user's username.</li><li>• initials string, This user's initials.</li><li>• online boolean, Whether this user is online.</li></ul>
state	string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"><li>• scheduled boolean, If the item is scheduled.</li><li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li><li>• scheduledHours array, Hours of the day it is scheduled on.</li><li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li><li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li></ul>
allowConcurrentExecutions	boolean, Whether the workflow can execute when already running.
timeZone	string, The time zone of this workflow.
nextExecutionAt	string, The time of the next scheduled execution.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"><li>• urls array, URLs to receive a POST request at job completion</li><li>• successEmailSubject string, Custom subject line for success e-mail.</li><li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li><li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li><li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li><li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li><li>• successOn boolean, If success email notifications are on</li><li>• failureOn boolean, If failure email notifications are on</li></ul>
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.
createdAt	string,
updatedAt	string,

---

workflows\_post\_clone *Clone this Workflow*

---

### Description

Clone this Workflow

### Usage

```
workflows_post_clone(id, clone_schedule = NULL, clone_notifications = NULL)
```

### Arguments

`id` integer required. The ID for the workflow.  
`clone_schedule` boolean optional. If true, also copy the schedule to the new workflow.  
`clone_notifications` boolean optional. If true, also copy the notifications to the new workflow.

### Value

A list containing the following elements:

<code>id</code>	integer, The ID for this workflow.
<code>name</code>	string, The name of this workflow.
<code>description</code>	string, A description of the workflow.
<code>definition</code>	string, The definition of the workflow in YAML format. Must not be specified if 'fromJobChain' is specified.
<code>valid</code>	boolean, The validity of the workflow definition.
<code>validationErrors</code>	string, The errors encountered when validating the workflow definition.
<code>fileId</code>	string, The file id for the s3 file containing the workflow configuration.
<code>user</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li><code>id</code> integer, The ID of this user.</li> <li><code>name</code> string, This user's name.</li> <li><code>username</code> string, This user's username.</li> <li><code>initials</code> string, This user's initials.</li> <li><code>online</code> boolean, Whether this user is online.</li> </ul>
<code>state</code>	string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
<code>schedule</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li><code>scheduled</code> boolean, If the item is scheduled.</li> <li><code>scheduledDays</code> array, Day based on numeric value starting at 0 for Sunday.</li> <li><code>scheduledHours</code> array, Hours of the day it is scheduled on.</li> </ul>



- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

allowConcurrentExecutions      boolean, Whether the workflow can execute when already running.

timeZone                          string, The time zone of this workflow.

nextExecutionAt                  string, The time of the next scheduled execution.

notifications                    list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on
- failureOn boolean, If failure email notifications are on

archived                          string, The archival status of the requested item(s).

hidden                            boolean, The hidden status of the item.

createdAt                        string,

updatedAt                        string,

---

workflows\_post\_executions

*Execute a workflow*


---

## Description

Execute a workflow

## Usage

```
workflows_post_executions(
    id,
    target_task = NULL,
    input = NULL,
    included_tasks = NULL
)
```

**Arguments**

id	integer required. The ID for the workflow.
target_task	string optional. For a reverse workflow, the name of the task to target.
input	list optional. Key-value pairs to send to this execution as inputs.
included_tasks	array optional. If specified, executes only the subset of workflow tasks included.

**Value**

A list containing the following elements:

id	integer, The ID for this workflow execution.
state	string, The state of this workflow execution.
mistralState	string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled
mistralStateInfo	string, The state info of this workflow as reported by mistral.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
definition	string, The definition of the workflow for this execution.
input	list, Key-value pairs defined for this execution.
includedTasks	array, The subset of workflow tasks selected to execute.
tasks	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The name of the task.</li> <li>• mistralState string, The state of this task. One of idle, waiting, running, delayed, success, error, or cancelled</li> <li>• mistralStateInfo string, Extra info associated with the state of the task.</li> <li>• runs array, The runs associated with this task, in descending order by id.</li> <li>• executions array, The executions run by this task, in descending order by id.</li> </ul>
startedAt	string, The time this execution started.
finishedAt	string, The time this execution finished.
createdAt	string, The time this execution was created.
updatedAt	string, The time this execution was last updated.

---

```
workflows_post_executions_cancel
    Cancel a workflow execution
```

---

**Description**

Cancel a workflow execution

**Usage**

```
workflows_post_executions_cancel(id, execution_id)
```

**Arguments**

id	integer required. The ID for the workflow.
execution_id	integer required. The ID for the workflow execution.

**Value**

A list containing the following elements:

id	integer, The ID for this workflow execution.
state	string, The state of this workflow execution.
mistralState	string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled
mistralStateInfo	string, The state info of this workflow as reported by mistral.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
definition	string, The definition of the workflow for this execution.
input	list, Key-value pairs defined for this execution.
includedTasks	array, The subset of workflow tasks selected to execute.
tasks	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The name of the task.</li> <li>• mistralState string, The state of this task. One of idle, waiting, running, delayed, success, error, or cancelled</li> <li>• mistralStateInfo string, Extra info associated with the state of the task.</li> <li>• runs array, The runs associated with this task, in descending order by id.</li> </ul>

	<ul style="list-style-type: none"> <li>• executions array, The executions run by this task, in descending order by id.</li> </ul>
startedAt	string, The time this execution started.
finishedAt	string, The time this execution finished.
createdAt	string, The time this execution was created.
updatedAt	string, The time this execution was last updated.

---

workflows\_post\_executions\_resume

*Resume a paused workflow execution*

---

### Description

Resume a paused workflow execution

### Usage

```
workflows_post_executions_resume(id, execution_id)
```

### Arguments

id	integer required. The ID for the workflow.
execution_id	integer required. The ID for the workflow execution.

### Value

A list containing the following elements:

id	integer, The ID for this workflow execution.
state	string, The state of this workflow execution.
mistralState	string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled
mistralStateInfo	string, The state info of this workflow as reported by mistral.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
definition	string, The definition of the workflow for this execution.
input	list, Key-value pairs defined for this execution.
includedTasks	array, The subset of workflow tasks selected to execute.

tasks	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The name of the task.</li> <li>• mistralState string, The state of this task. One of idle, waiting, running, delayed, success, error, or cancelled</li> <li>• mistralStateInfo string, Extra info associated with the state of the task.</li> <li>• runs array, The runs associated with this task, in descending order by id.</li> <li>• executions array, The executions run by this task, in descending order by id.</li> </ul>
startedAt	string, The time this execution started.
finishedAt	string, The time this execution finished.
createdAt	string, The time this execution was created.
updatedAt	string, The time this execution was last updated.

---

workflows\_post\_executions\_retry

*Retry a failed task, or all failed tasks in an execution*

---

## Description

Retry a failed task, or all failed tasks in an execution

## Usage

```
workflows_post_executions_retry(id, execution_id, task_name = NULL)
```

## Arguments

id	integer required. The ID for the workflow.
execution_id	integer required. The ID for the workflow execution.
task_name	string optional. If specified, the name of the task to be retried. If not specified, all failed tasks in the execution will be retried.

## Value

A list containing the following elements:

id	integer, The ID for this workflow execution.
state	string, The state of this workflow execution.
mistralState	string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled
mistralStateInfo	string, The state info of this workflow as reported by mistral.
user	list, A list containing the following elements:

	<ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
definition	string, The definition of the workflow for this execution.
input	list, Key-value pairs defined for this execution.
includedTasks	array, The subset of workflow tasks selected to execute.
tasks	array, An array containing the following fields: <ul style="list-style-type: none"> <li>• name string, The name of the task.</li> <li>• mistralState string, The state of this task. One of idle, waiting, running, delayed, success, error, or cancelled</li> <li>• mistralStateInfo string, Extra info associated with the state of the task.</li> <li>• runs array, The runs associated with this task, in descending order by id.</li> <li>• executions array, The executions run by this task, in descending order by id.</li> </ul>
startedAt	string, The time this execution started.
finishedAt	string, The time this execution finished.
createdAt	string, The time this execution was created.
updatedAt	string, The time this execution was last updated.

---

workflows\_post\_git\_commits

*Commit and push a new version of the file*

---

## Description

Commit and push a new version of the file

## Usage

```
workflows_post_git_commits(id, content, message, file_hash)
```

## Arguments

id	integer required. The ID of the file.
content	string required. The contents to commit to the file.
message	string required. A commit message describing the changes being made.
file_hash	string required. The full SHA of the file being replaced.

**Value**

A list containing the following elements:

content	string, The file's contents.
type	string, The file's type.
size	integer, The file's size.
fileHash	string, The SHA of the file.

---

workflows_put	<i>Replace all attributes of this Workflow</i>
---------------	--

---

**Description**

Replace all attributes of this Workflow

**Usage**

```
workflows_put(
  id,
  name,
  description = NULL,
  definition = NULL,
  schedule = NULL,
  allow_concurrent_executions = NULL,
  time_zone = NULL,
  notifications = NULL
)
```

**Arguments**

id	integer required. The ID for this workflow.
name	string required. The name of this workflow.
description	string optional. A description of the workflow.
definition	string optional. The definition of the workflow in YAML format. Must not be specified if 'fromJobChain' is specified.
schedule	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
allow_concurrent_executions	boolean optional. Whether the workflow can execute when already running.

time_zone	string optional. The time zone of this workflow.
notifications	list optional. A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on</li> <li>• failureOn boolean, If failure email notifications are on</li> </ul>

**Value**

A list containing the following elements:

id	integer, The ID for this workflow.
name	string, The name of this workflow.
description	string, A description of the workflow.
definition	string, The definition of the workflow in YAML format. Must not be specified if 'fromJobChain' is specified.
valid	boolean, The validity of the workflow definition.
validationErrors	string, The errors encountered when validating the workflow definition.
fileId	string, The file id for the s3 file containing the workflow configuration.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>



allowConcurrentExecutions	boolean, Whether the workflow can execute when already running.
timeZone	string, The time zone of this workflow.
nextExecutionAt	string, The time of the next scheduled execution.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> <li>• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.</li> <li>• successOn boolean, If success email notifications are on</li> <li>• failureOn boolean, If failure email notifications are on</li> </ul>
archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.
createdAt	string,
updatedAt	string,

---

workflows\_put\_archive *Update the archive status of this object*

---

## Description

Update the archive status of this object

## Usage

```
workflows_put_archive(id, status)
```

## Arguments

id	integer required. The ID of the object.
status	boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

id	integer, The ID for this workflow.
name	string, The name of this workflow.
description	string, A description of the workflow.
definition	string, The definition of the workflow in YAML format. Must not be specified if 'fromJobChain' is specified.
valid	boolean, The validity of the workflow definition.
validationErrors	string, The errors encountered when validating the workflow definition.
fileId	string, The file id for the s3 file containing the workflow configuration.
user	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• id integer, The ID of this user.</li> <li>• name string, This user's name.</li> <li>• username string, This user's username.</li> <li>• initials string, This user's initials.</li> <li>• online boolean, Whether this user is online.</li> </ul>
state	string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
schedule	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• scheduled boolean, If the item is scheduled.</li> <li>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</li> <li>• scheduledHours array, Hours of the day it is scheduled on.</li> <li>• scheduledMinutes array, Minutes of the day it is scheduled on.</li> <li>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</li> </ul>
allowConcurrentExecutions	boolean, Whether the workflow can execute when already running.
timeZone	string, The time zone of this workflow.
nextExecutionAt	string, The time of the next scheduled execution.
notifications	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• urls array, URLs to receive a POST request at job completion</li> <li>• successEmailSubject string, Custom subject line for success e-mail.</li> <li>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</li> <li>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</li> <li>• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.</li> </ul>

- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on
- failureOn boolean, If failure email notifications are on

archived	string, The archival status of the requested item(s).
hidden	boolean, The hidden status of the item.
createdAt	string,
updatedAt	string,

---

workflows_put_git	<i>Attach an item to a file in a git repo</i>
-------------------	---

---

### Description

Attach an item to a file in a git repo

### Usage

```
workflows_put_git(
  id,
  git_ref = NULL,
  git_branch = NULL,
  git_path = NULL,
  git_repo_url = NULL,
  pull_from_git = NULL
)
```

### Arguments

id	integer required. The ID of the file.
git_ref	string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
git_branch	string optional. The git branch that the file is on.
git_path	string optional. The path of the file in the repository.
git_repo_url	string optional. The URL of the git repository.
pull_from_git	boolean optional. Automatically pull latest commit from git. Only works for scripts.

**Value**

A list containing the following elements:

<code>gitRef</code>	string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
<code>gitBranch</code>	string, The git branch that the file is on.
<code>gitPath</code>	string, The path of the file in the repository.
<code>gitRepo</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• <code>id</code> integer, The ID for this git repository.</li> <li>• <code>repoUrl</code> string, The URL for this git repository.</li> <li>• <code>createdAt</code> string,</li> <li>• <code>updatedAt</code> string,</li> </ul>
<code>pullFromGit</code>	boolean, Automatically pull latest commit from git. Only works for scripts.

---

`workflows_put_projects`

*Add a Workflow to a project*

---

**Description**

Add a Workflow to a project

**Usage**

`workflows_put_projects(id, project_id)`

**Arguments**

<code>id</code>	integer required. The ID of the Workflow.
<code>project_id</code>	integer required. The ID of the project.

**Value**

An empty HTTP response

---

workflows\_put\_shares\_groups  
*Set the permissions groups has on this object*

---

### Description

Set the permissions groups has on this object

### Usage

```
workflows_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

### Arguments

<code>id</code>	integer required. The ID of the resource that is shared.
<code>group_ids</code>	array required. An array of one or more group IDs.
<code>permission_level</code>	string required. Options are: "read", "write", or "manage".
<code>share_email_body</code>	string optional. Custom body text for e-mail sent on a share.
<code>send_shared_email</code>	boolean optional. Send email to the recipients of a share.

### Value

A list containing the following elements:

<code>readers</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
<code>writers</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
<code>owners</code>	list, A list containing the following elements: <ul style="list-style-type: none"> <li>• users array,</li> <li>• groups array,</li> </ul>
<code>totalUserShares</code>	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

`totalGroupShares`  
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

`workflows_put_shares_users`  
*Set the permissions users have on this object*

---

### Description

Set the permissions users have on this object

### Usage

```
workflows_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

### Arguments

`id` integer required. The ID of the resource that is shared.  
`user_ids` array required. An array of one or more user IDs.  
`permission_level` string required. Options are: "read", "write", or "manage".  
`share_email_body` string optional. Custom body text for e-mail sent on a share.  
`send_shared_email` boolean optional. Send email to the recipients of a share.

### Value

A list containing the following elements:

`readers` list, A list containing the following elements:

- users array,
- groups array,

`writers` list, A list containing the following elements:

- users array,
- groups array,

`owners` list, A list containing the following elements:

- users array,

- groups array,
- totalUserShares  
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- totalGroupShares  
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

write_chunks	<i>Split a file into chunks of a given chunk size, returning a list of file names.</i>
--------------	--

---

### Description

Split a file into chunks of a given chunk size, returning a list of file names.

### Usage

```
write_chunks(file, chunk_size)
```

### Arguments

file	name of the file
chunk_size	size of the chunk in bytes.

---

write_civis	<i>Upload a local data frame or csv file to the Civis Platform (Redshift)</i>
-------------	---

---

### Description

Uploads a data frame, a csv file, or file on S3 to Redshift based on the first argument.

A default database can be set using `options(civis.default_db = "my_database")`. If there is only one database available, this database will automatically be used as the default.

### Usage

```
write_civis(x, ...)

## S3 method for class 'data.frame'
write_civis(
  x,
  tablename,
  database = NULL,
  if_exists = "fail",
  distkey = NULL,
```

```
    sortkey1 = NULL,
    sortkey2 = NULL,
    max_errors = NULL,
    verbose = FALSE,
    hidden = TRUE,
    diststyle = NULL,
    header = TRUE,
    credential_id = NULL,
    import_args = NULL,
    ...
)

## S3 method for class 'character'
write_civis(
  x,
  tablename,
  database = NULL,
  if_exists = "fail",
  distkey = NULL,
  sortkey1 = NULL,
  sortkey2 = NULL,
  max_errors = NULL,
  verbose = FALSE,
  hidden = TRUE,
  diststyle = NULL,
  header = TRUE,
  credential_id = NULL,
  import_args = NULL,
  ...
)

## S3 method for class 'numeric'
write_civis(
  x,
  tablename,
  database = NULL,
  if_exists = "fail",
  distkey = NULL,
  sortkey1 = NULL,
  sortkey2 = NULL,
  max_errors = NULL,
  verbose = FALSE,
  delimiter = ",",
  hidden = TRUE,
  diststyle = NULL,
  header = TRUE,
  credential_id = NULL,
  import_args = NULL,
```



```
    ...
  )
```

### Arguments

x	data frame, file path of a csv, or the id of a csv file on S3 to upload to platform.
...	arguments passed to write.csv.
tablename	string, Name of table and schema "schema.tablename".
database	string, Name of database where data frame is to be uploaded. If no database is specified, uses options(civis.default_db).
if_exists	string, optional, String indicating action to take if table already exists. Must be either "fail", "drop", "truncate" or "append". Defaults to "fail".
distkey	string, optional, Column name designating the distkey.
sortkey1	string, optional, Column name designating the first sortkey.
sortkey2	string, optional, Column name designating the second (compound) sortkey.
max_errors	int, optional, Maximum number of rows with errors to remove before failing.
verbose	bool, Set to TRUE to print intermediate progress indicators.
hidden	bool, if TRUE (default), this job will not appear in the Civis UI.
diststyle	string optional. The diststyle to use for the table. One of "even", "all", or "key".
header	bool, if TRUE (default) the first row is a header.
credential_id	integer, the id of the credential to be used when performing the database import. If NULL (default), the default credential of the current user will be used.
import_args	list of additional arguments for <a href="#">imports_post_files</a> .
delimiter	string, optional. Which delimiter to use. One of ',', '\t' or ' ' .

### Methods (by class)

- data.frame: Upload a data frame to Civis Platform (Redshift).
- character: Upload a csv to Civis Platform (Redshift).
- numeric: Upload a csv file from the files endpoint to Civis Platform (Redshift)

### See Also

[refresh\\_table](#) to update table meta-data.

Other io: [download\\_civis\(\)](#), [query\\_civis\\_file\(\)](#), [query\\_civis\(\)](#), [read\\_civis\(\)](#), [write\\_civis\\_file\(\)](#)

### Examples

```
## Not run:
df <- read.csv(local_file)

# Create new table, fail if already exists
write_civis(df, "schema.my_table", "my_database")
```

```

# Create new table, append if already exists
write_civis(df, "schema.my_table", "my_database", if_exists="append")

# Create new table with additional options
write_civis(df, "schema.my_table", "my_database",
            distkey="id",
            sortkey1="added_date",
            credential_id = 1,
            header = FALSE)

# Create new table directly from a saved csv
write_civis("my/file/path.csv", "schema.my_table", "my_database")

# Create new table from a file_id
id <- write_civis_file("my/file/path.csv", name = "path.csv")
write_civis(id, "schema.my_table", "my_database")

## End(Not run)

```

---

<code>write_civis_file</code>	<i>Upload a R object or file to Civis Platform (Files endpoint)</i>
-------------------------------	---

---

## Description

Uploads a data frame, R object or file to the files endpoint on Civis Platform (Amazon S3). It returns the id of the file for use with [read\\_civis](#) or [download\\_civis](#).

Data frames are uploaded as CSVs with [write.csv](#). R objects are serialized with [saveRDS](#). Files are uploaded as-is. Objects or files larger than 50mb are chunked and can be uploaded in parallel if a [plan](#) has been set. Files larger than 5TB cannot be uploaded.

## Usage

```

write_civis_file(x, ...)

## Default S3 method:
write_civis_file(x, name = "r-object.rds", expires_at = NULL, ...)

## S3 method for class 'data.frame'
write_civis_file(
  x,
  name = "data.csv",
  expires_at = NULL,
  row.names = FALSE,
  ...
)

## S3 method for class 'character'
write_civis_file(x, name = x, expires_at = NULL, ...)

```

**Arguments**

x	R object or path of file to upload.
...	arguments passed to <a href="#">saveRDS</a> or <a href="#">write.csv</a> for data frames.
name	string, Name of the file or object.
expires_at	string, The date and time the object will expire on in the format "YYYY-MM-DD HH:MM:SS". expires_at = NULL allows files to be kept indefinitely.
row.names	default FALSE. Either a logical value indicating whether the row names of x are to be written along with x, or a character vector of row names to be written.

**Details**

Data frames are uploaded as CSVs using [write.csv](#), with `row.names = FALSE` by default. Additional arguments to `write.csv` can be passed through ...

By default, R objects are serialized using [saveRDS](#) before uploading the object to the files endpoint. If given a filepath, the file is uploaded as-is.

**Value**

The file id which can be used to later retrieve the file using [read\\_civis](#).

**Methods (by class)**

- default: Serialize R object
- data.frame: Upload a data frame as a csv
- character: Upload any file

**See Also**

Other io: [download\\_civis\(\)](#), [query\\_civis\\_file\(\)](#), [query\\_civis\(\)](#), [read\\_civis\(\)](#), [write\\_civis\(\)](#)

**Examples**

```
## Not run:
data(iris)
file_id <- write_civis_file(iris)
read_civis(file_id)

file_id <- write_civis_file("path/to/my.csv")
read_civis(file_id)
read_civis(file_id, using = readr::read_csv)

file_id <- write_civis_file(list(a = 1))
read_civis(file_id, using = readRDS)

# Does not expire
file_id <- write_civis_file(iris, expires_at = NULL)

# Expires on a given date and time
```

```
file_id <- write_civis_file(iris, expires_at = "2030-01-01")
file_id <- write_civis_file(iris, expires_at = "12:00:00")
file_id <- write_civis_file(iris, expires_at = "2030-01-01 12:00:00")

# Upload a large file in parallel.
library(future)
plan(multisession)
file_id <- write_civis_file("my_large_file")

## End(Not run)
```

---

write\_job\_output      *Add a file as a run output if called from a container job*

---

### Description

Add a file as a run output if called from a container job

### Usage

```
write_job_output(filename)
```

### Arguments

filename      string, name of the file to add as a run output civis::scripts\_post\*\_runs\_outputs.

### Details

Only posts if running on Civis Platform.

### Value

Returns the filename if not running on platform.

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