

# Package ‘connectapi’

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**Type** Package

**Title** Utilities for Interacting with the 'Posit Connect' Server API

**Version** 0.5.0

**Description** Provides a helpful 'R6' class and methods for interacting with the 'Posit Connect' Server API along with some meaningful utility functions for regular tasks. API documentation varies by 'Posit Connect' installation and version, but the latest documentation is also hosted publicly at <https://docs.posit.co/connect/api/>.

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<https://github.com/rstudio/connectapi>

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audit_access_open	<i>Audit Access Controls</i>
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---

**Description****[Experimental]****Usage**

```
audit_access_open(content, type = "all")
```

**Arguments**

content	data.frame of content information, as from <a href="#">get_content()</a>
type	One of "all" or "logged_in". If "all", return a list of apps whose access control is set to "Everyone". If "logged_in", return a list of apps whose access control is set to "All logged in users"

**See Also**

Other audit functions: [audit\\_r\\_versions\(\)](#), [audit\\_runas\(\)](#), [vanity\\_is\\_available\(\)](#)

---

audit_runas	<i>Audit Run As Settings</i>
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---

**Description**

**[Experimental]**

**Usage**

```
audit_runas(content)
```

**Arguments**

content	data.frame of content information, as from <a href="#">get_content()</a>
---------	--

**Value**

A data frame with the app name and the Run As user if the Run As user is not the default

**See Also**

Other audit functions: [audit\\_access\\_open\(\)](#), [audit\\_r\\_versions\(\)](#), [vanity\\_is\\_available\(\)](#)

---

audit_r_versions	<i>Audit R Versions</i>
------------------	-------------------------

---

**Description**

**[Experimental]**

**Usage**

```
audit_r_versions(content)
```

**Arguments**

content            data.frame of content information, as from [get\\_content\(\)](#)

**Value**

A plot that shows the R version used by content over time and in aggregate.

**See Also**

Other audit functions: [audit\\_access\\_open\(\)](#), [audit\\_runas\(\)](#), [vanity\\_is\\_available\(\)](#)

---

browse_solo	<i>Browse</i>
-------------	---------------

---

**Description**

Browse to different locations on Connect via `utils::browseURL`

**Usage**

```
browse_solo(content)
```

```
browse_dashboard(content)
```

```
browse_api_docs(connect)
```

```
browse_connect(connect)
```

**Arguments**

content            A R6 Content object

connect            A R6 Connect object

**Value**

The url that is opened in the browser

Bundle

*Bundle*

---

**Description**

Bundle

Bundle

**Details**

An R6 class that represents a bundle

**Public fields**

path The bundle path on disk.

size The size of the bundle.

**Methods****Public methods:**

- [Bundle\\$new\(\)](#)
- [Bundle#print\(\)](#)
- [Bundle\\$clone\(\)](#)

**Method** `new()`: Initialize this content bundle.

*Usage:*

```
Bundle$new(path)
```

*Arguments:*

path The bundle path on disk.

**Method** `print()`: Print this object.

*Usage:*

```
Bundle#print(...)
```

*Arguments:*

... Unused.

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
Bundle$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**See Also**

Other R6 classes: [Content](#), [ContentTask](#), [Environment](#), [PositConnect](#), [Task](#), [Vanity](#), [Variant](#), [VariantSchedule](#), [VariantTask](#)

---

bundle_dir	<i>Define a bundle from a Directory</i>
------------	---

---

**Description**

Creates a bundle from a target directory.

**Usage**

```
bundle_dir(  
  path = ".",  
  filename = fs::file_temp(pattern = "bundle", ext = ".tar.gz")  
)
```

**Arguments**

path	The path to the directory to be bundled
filename	The output bundle path

**Value**

Bundle A bundle object

**See Also**

Other deployment functions: [bundle\\_path\(\)](#), [bundle\\_static\(\)](#), [deploy\(\)](#), [download\\_bundle\(\)](#), [poll\\_task\(\)](#)

**Examples**

```
bundle_dir(system.file("tests/testthat/examples/shiny/", package = "connectapi"))
```

---

bundle_path	<i>Define a bundle from a path (a path directly to a tar.gz file)</i>
-------------	---

---

**Description**

Define a bundle from a path (a path directly to a tar.gz file)

**Usage**

```
bundle_path(path)
```

**Arguments**

path                    The path to a .tar.gz file

**Value**

Bundle A bundle object

**See Also**

Other deployment functions: [bundle\\_dir\(\)](#), [bundle\\_static\(\)](#), [deploy\(\)](#), [download\\_bundle\(\)](#), [poll\\_task\(\)](#)

**Examples**

```
bundle_path(system.file("tests/testthat/examples/static.tar.gz", package = "connectapi"))
```

---

bundle\_static                    *Define a bundle from a static file (or files)*

---

**Description**

Defines a bundle from static files. It copies all files to a temporary directory, generates a basic manifest file (using the first file as the "primary"), and bundles the directory.

**Usage**

```
bundle_static(  
  path,  
  filename = fs::file_temp(pattern = "bundle", ext = ".tar.gz")  
)
```

**Arguments**

path                    The path to a file (or files) that will be used for the static bundle  
filename                The output bundle path

**Details**

NOTE: the `rsconnect` package is required for this function to work properly.

**Value**

Bundle A bundle object



**See Also**

Other deployment functions: [bundle\\_dir\(\)](#), [bundle\\_path\(\)](#), [deploy\(\)](#), [download\\_bundle\(\)](#), [poll\\_task\(\)](#)

**Examples**

```
bundle_static(system.file("logo.png", package = "connectapi"))
```

---

 connect

---

*Create a connection to Posit Connect*


---

**Description**

Creates a connection to Posit Connect using the server URL and an api key. Validates the connection and checks that the version of the server is compatible with the current version of the package.

**Usage**

```
connect(
  server = Sys.getenv(paste0(prefix, "_SERVER"), NA_character_),
  api_key = Sys.getenv(paste0(prefix, "_API_KEY"), NA_character_),
  prefix = "CONNECT",
  ...,
  .check_is_fatal = TRUE
)
```

**Arguments**

server	The URL for accessing Posit Connect. Defaults to environment variable <code>CONNECT_SERVER</code>
api_key	The API Key to authenticate to Posit Connect with. Defaults to environment variable <code>CONNECT_API_KEY</code>
prefix	The prefix used to determine environment variables
...	Additional arguments. Not used at present
.check_is_fatal	Whether to fail if "check" requests fail. Useful in rare cases where more http request customization is needed for requests to succeed.

**Value**

A Posit Connect R6 object that can be passed along to methods

**Examples**

```
## Not run:
connect()

## End(Not run)

# default is to read CONNECT_SERVER and CONNECT_API_KEY environment variables
# this example will read TEST_1_SERVER and TEST_1_API_KEY
connect(prefix = "TEST_1")
```

---

Content

*Content*

---

**Description**

Content

Content

**Details**

An R6 class that represents content

**Public fields**

connect An R6 Connect object

content The content details from Posit Connect

**Active bindings**

default\_variant The default variant for this object.

is\_rendered TRUE if this is a rendered content type, otherwise FALSE.

is\_interactive TRUE if this is a rendered content type, otherwise FALSE.

**Methods****Public methods:**

- [Content\\$new\(\)](#)
- [Content\\$get\\_connect\(\)](#)
- [Content\\$get\\_content\(\)](#)
- [Content\\$get\\_content\\_remote\(\)](#)
- [Content\\$get\\_bundles\(\)](#)
- [Content\\$bundle\\_download\(\)](#)
- [Content\\$bundle\\_delete\(\)](#)

- `Content$internal_content()`
- `Content$update()`
- `Content$danger_delete()`
- `Content$get_url()`
- `Content$get_dashboard_url()`
- `Content$jobs()`
- `Content$job()`
- `Content$register_job_kill_order()`
- `Content$variants()`
- `Content$tag_set()`
- `Content$tag_delete()`
- `Content$tags()`
- `Content$permissions_add()`
- `Content$permissions_update()`
- `Content$permissions_delete()`
- `Content$permissions()`
- `Content$environment()`
- `Content$environment_set()`
- `Content$environment_all()`
- `Content$deploy()`
- `Content$repo_enable()`
- `Content$repo_set()`
- `Content$print()`
- `Content$clone()`

**Method** `new()`: Initialize this content.

*Usage:*

```
Content$new(connect, content)
```

*Arguments:*

`connect` The Connect instance.

`content` The content data.

**Method** `get_connect()`: Returns the Connect instance.

*Usage:*

```
Content$get_connect()
```

**Method** `get_content()`: Returns the underlying content data.

*Usage:*

```
Content$get_content()
```

**Method** `get_content_remote()`: Obtain the content data from the Connect server.

*Usage:*

```
Content$get_content_remote()
```

**Method** `get_bundles()`: Return the set of content bundles.

*Usage:*

```
Content$get_bundles()
```

**Method** `bundle_download()`: Download the source archive for a content bundle.

*Usage:*

```
Content$bundle_download(  
  bundle_id,  
  filename = tempfile(pattern = "bundle", fileext = ".tar.gz"),  
  overwrite = FALSE  
)
```

*Arguments:*

`bundle_id` The bundle identifier.

`filename` Where to write the result.

`overwrite` Overwrite an existing filename.

**Method** `bundle_delete()`: Delete a content bundle.

*Usage:*

```
Content$bundle_delete(bundle_id)
```

*Arguments:*

`bundle_id` The bundle identifier.

**Method** `internal_content()`: Get this (remote) content item.

*Usage:*

```
Content$internal_content()
```

**Method** `update()`: Update this content item.

*Usage:*

```
Content$update(...)
```

*Arguments:*

... Content fields.

**Method** `danger_delete()`: Delete this content item.

*Usage:*

```
Content$danger_delete()
```

**Method** `get_url()`: Return the URL for this content.

*Usage:*

```
Content$get_url()
```

**Method** `get_dashboard_url()`: Return the URL for this content in the Posit Connect dashboard.

*Usage:*

```
Content$get_dashboard_url(pane = "")
```

*Arguments:*

pane The pane in the dashboard to link to.

**Method jobs():** Return the jobs for this content

*Usage:*

Content\$jobs()

**Method job():** Return a single job for this content.

*Usage:*

Content\$job(key)

*Arguments:*

key The job key.

**Method register\_job\_kill\_order():** Terminate a single job for this content item.

*Usage:*

Content\$register\_job\_kill\_order(key)

*Arguments:*

key The job key.

**Method variants():** Return the variants for this content.

*Usage:*

Content\$variants()

**Method tag\_set():** Set a tag for this content.

*Usage:*

Content\$tag\_set(tag\_id)

*Arguments:*

tag\_id The tag identifier.

**Method tag\_delete():** Remove a tag for this content.

*Usage:*

Content\$tag\_delete(tag\_id)

*Arguments:*

tag\_id The tag identifier.

**Method tags():** The tags for this content.

*Usage:*

Content\$tags()

**Method permissions\_add():** Add a principal to the ACL for this content.

*Usage:*

Content\$permissions\_add(principal\_guid, principal\_type, role)

*Arguments:*

principal\_guid GUID for the target user or group.  
 principal\_type Acting on user or group.  
 role The kind of content access.

**Method** permissions\_update(): Alter a principal in the ACL for this content.

*Usage:*

Content\$permissions\_update(id, principal\_guid, principal\_type, role)

*Arguments:*

id The target identifier.  
 principal\_guid GUID for the target user or group.  
 principal\_type Acting on user or group.  
 role The kind of content access.

**Method** permissions\_delete(): Remove an entry from the ACL for this content.

*Usage:*

Content\$permissions\_delete(id)

*Arguments:*

id The target identifier.

**Method** permissions(): Obtain some or all of the ACL for this content.

*Usage:*

Content\$permissions(id = NULL, add\_owner = FALSE)

*Arguments:*

id The target identifier.  
 add\_owner Include the content owner in the result set.

**Method** environment(): Return the environment variables set for this content.

*Usage:*

Content\$environment()

**Method** environment\_set(): Adjust the environment variables set for this content.

*Usage:*

Content\$environment\_set(...)

*Arguments:*

... Environment variable names and values. Use NA as the value to unset variables.

**Method** environment\_all(): Overwrite the environment variables set for this content.

*Usage:*

Content\$environment\_all(...)

*Arguments:*

... Environment variable names and values.

**Method** deploy(): Deploy this content

*Usage:*

```
Content$deploy(bundle_id = NULL)
```

*Arguments:*

`bundle_id` Target bundle identifier.

**Method** `repo_enable()`: Adjust Git polling.

*Usage:*

```
Content$repo_enable(enabled = TRUE)
```

*Arguments:*

`enabled` Polling enabled.

**Method** `repo_set()`: Adjust Git repository.

*Usage:*

```
Content$repo_set(repository, branch, subdirectory)
```

*Arguments:*

`repository` Git repository URL

`branch` Git repository branch

`subdirectory` Git repository directory

**Method** `print()`: Print this object.

*Usage:*

```
Content$print(...)
```

*Arguments:*

`...` Unused.

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
Content$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.

**See Also**

Other R6 classes: [Bundle](#), [ContentTask](#), [Environment](#), [PositConnect](#), [Task](#), [Vanity](#), [Variant](#), [VariantSchedule](#), [VariantTask](#)

---

ContentTask

*ContentTask*

---

### Description

ContentTask

ContentTask

### Details

An R6 class that represents a Task for a piece of Content

### Super class

`connectapi::Content` -> ContentTask

### Public fields

task The task.

data The task data.

### Methods

#### Public methods:

- `ContentTask$new()`
- `ContentTask$get_task()`
- `ContentTask$add_data()`
- `ContentTask$get_data()`
- `ContentTask$print()`
- `ContentTask$clone()`

**Method** `new()`: Initialize this task.

*Usage:*

```
ContentTask$new(connect, content, task)
```

*Arguments:*

connect The Connect instance.

content The Content instance.

task The task data.

**Method** `get_task()`: Return the underlying task.

*Usage:*

```
ContentTask$get_task()
```

**Method** `add_data()`: Set the data.



*Usage:*

```
ContentTask$add_data(data)
```

*Arguments:*

data The data.

**Method** `get_data()`: Get the data.

*Usage:*

```
ContentTask$get_data()
```

**Method** `print()`: Print this object.

*Usage:*

```
ContentTask$print(...)
```

*Arguments:*

... Unused.

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
ContentTask$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

### See Also

Other R6 classes: [Bundle](#), [Content](#), [Environment](#), [PositConnect](#), [Task](#), [Vanity](#), [Variant](#), [VariantSchedule](#), [VariantTask](#)

---

content\_delete

*Delete Content*

---

### Description

Delete a content item. **WARNING:** This action deletes all history, configuration, logs, and resources about a content item. It *cannot* be undone.

### Usage

```
content_delete(content, force = FALSE)
```

### Arguments

content an R6 content item

force Optional. A boolean that determines whether we should prompt in interactive sessions

**Value**

The R6 Content item. The item is deleted, but information about it is cached locally

**See Also**

Other content functions: [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

content_item	<i>Get Content Item</i>
--------------	-------------------------

---

**Description**

Returns a single content item based on guid

**Usage**

```
content_item(connect, guid)
```

**Arguments**

connect	A Connect object
guid	The GUID for the content item to be retrieved

**Value**

A Content object for use with other content endpoints

**See Also**

Other content functions: [content\\_delete\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

**Examples**

```
## Not run:
connect() %>%
  content_item("some-guid") %>%
  content_update_access_type("all")

## End(Not run)
```

---

content\_list\_by\_tag    *Content List*

---

**Description**

**[Experimental]** Get a content list

**Usage**

```
content_list_by_tag(src, tag)
```

**Arguments**

src	An R6 Connect object
tag	A connect_tag_tree object or tag ID

**Details**

content\_list\_by\_tag() retrieves a content list by tag

---

content\_list\_with\_permissions  
*Get Content List with Permissions*

---

**Description**

**[Experimental]** These functions are experimental placeholders until the API supports this behavior.

**Usage**

```
content_list_with_permissions(src, ..., .p = NULL)
```

```
content_list_guid_has_access(content_list, guid)
```

**Arguments**

src	A Connect R6 object
...	Extra arguments. Currently not used
.p	Optional. A predicate function, passed as-is to purrr::keep(). See get_content() for more details. Can greatly help performance by reducing how many items to get permissions for
content_list	A "content list with permissions" as returned by content_list_with_permissions()
guid	A user or group GUID to filter the content list by whether they have access

## Details

`content_list_with_permissions` loops through content and retrieves permissions for each item (with a progress bar). This can take a long time for lots of content! Make sure to use the optional `.p` argument as a predicate function that filters the content list before it is transformed.

`content_list_guid_has_access` works with a `content_list_with_permissions` dataset by checking whether a given GUID (either user or group) has access to the content by:

- checking if the content has `access_type == "all"`
- checking if the content has `access_type == "logged_in"`
- checking if the provided guid is the content owner
- checking if the provided guid is in the list of content permissions (in the "permissions" column)

---

<code>content_render</code>	<i>Render a content item.</i>
-----------------------------	-------------------------------

---

## Description

Submit a request to render a content item. Once submitted, the server runs an asynchronous process to render the content. This might be useful if content needs to be updated after its source data has changed, especially if this doesn't happen on a regular schedule.

Only valid for rendered content (e.g., most Quarto documents, Jupyter notebooks, R Markdown reports).

## Usage

```
content_render(content, variant_key = NULL)
```

## Arguments

<code>content</code>	The content item you wish to render.
<code>variant_key</code>	If a variant key is provided, render that variant. Otherwise, render the default variant.

## Value

A [VariantTask](#) object that can be used to track completion of the render.

## Examples

```
## Not run:
client <- connect()
item <- content_item(client, "951bf3ad-82d0-4bca-bba8-9b27e35c49fa")
task <- content_render(item)
poll_task(task)

## End(Not run)
```

---

content_restart	<i>Restart a content item.</i>
-----------------	--------------------------------

---

### Description

Submit a request to restart a content item. Once submitted, the server performs an asynchronous request to kill all processes associated with the content item, starting new processes as needed. This might be useful if the application relies on data that is loaded at startup, or if its memory usage has grown over time.

Note that users interacting with certain types of applications may have their workflows interrupted. Only valid for interactive content (e.g., applications, APIs).

### Usage

```
content_restart(content)
```

### Arguments

content	The content item you wish to restart.
---------	---------------------------------------

### Examples

```
## Not run:
client <- connect()
item <- content_item(client, "8f37d6e0-3395-4a2c-aa6a-d7f2fe1babd0")
content_restart(item)

## End(Not run)
```

---

content_title	<i>Get Content Title</i>
---------------	--------------------------

---

### Description

Return content title for a piece of content. If the content is missing (deleted) or not visible, then returns the default

### Usage

```
content_title(connect, guid, default = "Unknown Content")
```

### Arguments

connect	A Connect object
guid	The GUID for the content item to be retrieved
default	The default value returned for missing or not visible content

**Value**

character. The title of the requested content

**See Also**

Other content functions: `content_delete()`, `content_item()`, `content_update()`, `create_random_name()`, `dashboard_url()`, `dashboard_url_chr()`, `delete_thumbnail()`, `delete_vanity_url()`, `deploy_repo()`, `get_bundles()`, `get_environment()`, `get_image()`, `get_job()`, `get_jobs()`, `get_thumbnail()`, `get_vanity_url()`, `git`, `has_thumbnail()`, `permissions`, `set_image_path()`, `set_run_as()`, `set_thumbnail()`, `set_vanity_url()`, `swap_vanity_url()`, `terminate_jobs()`, `verify_content_name()`

---

content\_update

*Update Content*

---

**Description**

Update settings for a content item. For a list of all settings, see the [latest documentation](#) or the documentation for your server via `connectapi::browse_api_docs()`.

**Usage**

```
content_update(content, ...)
```

```
content_update_access_type(content, access_type = c("all", "logged_in", "acl"))
```

```
content_update_owner(content, owner_guid)
```

**Arguments**

content	An R6 content item
...	Settings up update that are passed along to Posit Connect
access_type	One of "all", "logged_in", or "acl"
owner_guid	The GUID of a user who is a publisher, so that they can become the new owner of the content

**Details**

Popular selections are `content_update(access_type="all")`, `content_update(access_type="logged_in")` or `content_update(access_type="acl")`, process settings, title, description, etc.

- `content_update_access_type()` is a helper to make it easier to change `access_type`
- `content_update_owner()` is a helper to make it easier to change owner

**Value**

An R6 content item

**See Also**

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

create_random_name	<i>Create Random Name</i>
--------------------	---------------------------

---

**Description**

Creates a random name from the LETTERS dataset

**Usage**

```
create_random_name(length = 25)
```

**Arguments**

length            Optional. The length of the random name. Defaults to 25

**Value**

The randomly generated name

**See Also**

[connectapi::verify\\_content\\_name](#)

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

dashboard\_url *Build a Dashboard URL from a Content Item*

---

### Description

Returns the URL for the content dashboard (opened to the selected pane).

### Usage

```
dashboard_url(content, pane = "")
```

### Arguments

content	<a href="#">Content</a> A Content object
pane	character The pane in the dashboard to link to

### Value

character The dashboard URL for the content provided

### See Also

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

dashboard\_url\_chr *Build a Dashboard URL from Character Vectors*

---

### Description

Returns the URL for the content dashboard (opened to the selected pane). NOTE: this takes a character object for performance optimization.

### Usage

```
dashboard_url_chr(connect_url, content_guid, pane = "")
```

### Arguments

connect_url	character The base URL of the Connect server
content_guid	character The guid for the content item in question
pane	character The pane in the dashboard to link to



**Value**

character The dashboard URL for the content provided

**See Also**

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

delete\_runtime\_cache    *Delete a runtime cache*

---

**Description**

Delete a runtime cache from a Connect server. Requires Administrator privileges.

**Usage**

```
delete_runtime_cache(
    client,
    language,
    version,
    image_name = "Local",
    dry_run = FALSE
)
```

**Arguments**

client	A Connect object.
language	The language of the cache, either "R" or "Python".
version	The version of the cache, e.g. "4.3.3".
image_name	Optional. The name of the off-host execution image for the cache, or "Local" (the default) for native execution caches.
dry_run	Optional, default FALSE. If true, perform a dry run of the deletion.

**Value**

A Task object representing the deletion task. If dry\_run is TRUE, returns NULL or throws an error if the deletion would fail.

**See Also**

[get\\_runtime\\_caches\(\)](#)

Other server management functions: [get\\_runtime\\_caches\(\)](#)

## Examples

```
## Not run:
client <- connect()
task <- delete_runtime_cache(client, "R", "4.3.3")
poll_task(task)

## End(Not run)
```

---

delete_thumbnail	<i>Delete content item thumbnail</i>
------------------	--------------------------------------

---

## Description

Delete the thumbnail from a content item on Connect.

## Usage

```
delete_thumbnail(content)
```

## Arguments

content            A content item.

## Value

The content item (invisibly).

## See Also

Other thumbnail functions: [get\\_thumbnail\(\)](#), [has\\_thumbnail\(\)](#), [set\\_thumbnail\(\)](#)

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

## Examples

```
## Not run:
client <- connect()
item <- content_item(client, "8f37d6e0-3395-4a2c-aa6a-d7f2fe1babd0")
thumbnail <- get_thumbnail(item)

## End(Not run)
```

---

delete_vanity_url	<i>Delete the Vanity URL</i>
-------------------	------------------------------

---

**Description**

Deletes the Vanity URL for a piece of content.

**Usage**

```
delete_vanity_url(content)
```

**Arguments**

content	A Content object
---------	------------------

**See Also**

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

deploy	<i>Deploy a bundle</i>
--------	------------------------

---

**Description**

Deploys a bundle (tarball) to an Posit Connect server. If not provided, name (a unique identifier) will be an auto-generated alphabetic string. If deploying to an existing endpoint, you can set name or guid to the desired content.

**Usage**

```
deploy(  
  connect,  
  bundle,  
  name = create_random_name(),  
  title = name,  
  guid = NULL,  
  ...,  
  .pre_deploy = {  
}  
)  
  
deploy_current(content)
```

**Arguments**

connect	A Connect object
bundle	A Bundle object
name	The unique name for the content on the server
title	optional The title to be used for the content on the server
guid	optional The GUID if the content already exists on the server
...	Additional arguments passed along to the content creation
.pre_deploy	An expression to execute before deploying the new bundle. The variables content and bundle_id are supplied
content	A Content object

**Details**

This function accepts the same arguments as `connectapi::content_update()`.

`deploy_current()` is a helper to easily redeploy the currently active bundle for an existing content item.

**Value**

Task A task object

**See Also**

`connectapi::content_update`

Other deployment functions: [bundle\\_dir\(\)](#), [bundle\\_path\(\)](#), [bundle\\_static\(\)](#), [download\\_bundle\(\)](#), [poll\\_task\(\)](#)

**Examples**

```
## Not run:
client <- connect()

# beware bundling big directories, like `renv/`, `data/`, etc.
bnd <- bundle_dir(".")

deploy(client, bnd)

## End(Not run)

client <- connect(prefix = "TEST_1")
bnd <- bundle_path(system.file("tests/testthat/examples/static.tar.gz", package = "connectapi"))
deploy(client, bnd)
```

---

 deploy\_repo

*Deploy a Git Repository*


---

### Description

**[Experimental]** Deploy a git repository directly to Posit Connect, using Posit Connect's "pull-based" "git-polling" method of deployment.

### Usage

```

deploy_repo(
  client,
  repository,
  branch,
  subdirectory,
  name = create_random_name(),
  title = name,
  ...
)

deploy_repo_enable(content, enabled = TRUE)

deploy_repo_update(content)

```

### Arguments

client	A Connect R6 object
repository	The git repository to deploy
branch	The git branch to deploy
subdirectory	The subdirectory to deploy (must contain a manifest.json)
name	The "name" / unique identifier for the content. Defaults to a random character string
title	The "title" of the content
...	Additional options for defining / specifying content attributes
content	An R6 Content object (i.e. the result of content_item())
enabled	Whether Connect will enable automatic polling for repository updates

### Details

- `deploy_repo_enable()` enables (or disables) Posit Connect's git polling for a piece of content
- `deploy_repo_update()` triggers an update of the content from its git repository, if any are present

**Value**

A ContentTask object, for use with poll\_task() (if you want to follow the logs)

**See Also**

connectapi::poll\_task, connectapi::repo\_check\_branches, connectapi::repo\_check\_manifest\_dirs

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

download\_bundle

*Download a Bundle from Deployed Connect Content*

---

**Description**

Downloads a Content item's active bundle, or (optionally) one of its other bundles.

**Usage**

```
download_bundle(
  content,
  filename = fs::file_temp(pattern = "bundle", ext = ".tar.gz"),
  bundle_id = NULL,
  overwrite = FALSE
)
```

**Arguments**

content	A Content object
filename	Optional. The output bundle path
bundle_id	Optional. A string representing the bundle_id to download. If NULL, will use the currently active bundle.
overwrite	Optional. Default FALSE. Whether to overwrite the target location if it already exists

**Value**

Bundle A bundle object

**See Also**

Other deployment functions: [bundle\\_dir\(\)](#), [bundle\\_path\(\)](#), [bundle\\_static\(\)](#), [deploy\(\)](#), [poll\\_task\(\)](#)

---

Environment

*Environment*

---

## Description

Environment

Environment

## Details

An R6 class that represents a Content's Environment Variables

## Super class

`connectapi::Content` -> Environment

## Public fields

`env_raw` The (raw) set of environment variables.

`env_vars` The set of environment variables.

## Methods

### Public methods:

- `Environment$new()`
- `Environment$environment()`
- `Environment$environment_set()`
- `Environment$environment_all()`
- `Environment$env_refresh()`
- `Environment$print()`
- `Environment$clone()`

**Method** `new()`: Initialize this set of environment variables.

*Usage:*

```
Environment$new(connect, content)
```

*Arguments:*

`connect` The Connect instance.

`content` The Content instance.

**Method** `environment()`: Fetch the set of environment variables.

*Usage:*

```
Environment$environment()
```

**Method** `environment_set()`: Update the set of environment variables.

*Usage:*

```
Environment$environment_set(...)
```

*Arguments:*

... Environment variable names and values.

**Method** environment\_all(): Overwrite the set of environment variables.

*Usage:*

```
Environment$environment_all(...)
```

*Arguments:*

... Environment variable names and values.

**Method** env\_refresh(): Fetch the set o environment variables.

*Usage:*

```
Environment$env_refresh()
```

**Method** print(): Print this object.

*Usage:*

```
Environment$print(...)
```

*Arguments:*

... Unused.

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
Environment$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

### See Also

Other R6 classes: [Bundle](#), [Content](#), [ContentTask](#), [PositConnect](#), [Task](#), [Vanity](#), [Variant](#), [VariantSchedule](#), [VariantTask](#)

---

get\_audit\_logs

*Get Audit Logs from Posit Connect Server*

---

### Description

Get Audit Logs from Posit Connect Server

### Usage

```
get_audit_logs(src, limit = 500, previous = NULL, nxt = NULL, asc_order = TRUE)
```



### Arguments

src	The source object
limit	The number of records to return.
previous	Retrieve the previous page of Shiny application usage logs relative to the provided value. This value corresponds to an internal reference within the server and should be sourced from the appropriate attribute within the paging object of a previous response.
nxt	Retrieve the next page of Shiny application usage logs relative to the provided value. This value corresponds to an internal reference within the server and should be sourced from the appropriate attribute within the paging object of a previous response.
asc_order	Defaults to TRUE; Determines if the response records should be listed in ascending or descending order within the response. Ordering is by the started timestamp field.

### Details

Please see [https://docs.posit.co/connect/api/#get-v1/audit\\_logs](https://docs.posit.co/connect/api/#get-v1/audit_logs) for more information.

### Value

A tibble with the following columns:

- id: ID of the audit action
- time: Timestamp in RFC3339 format when action was taken
- user\_id: User ID of the actor who made the audit action
- user\_description: Description of the actor
- action: Audit action taken
- event\_description: Description of action

### Examples

```
## Not run:
library(connectapi)
client <- connect()

# get the last 20 audit logs
get_audit_logs(client, limit = 20, asc_order = FALSE)

## End(Not run)
```

---

get_bundles	<i>Get Bundles</i>
-------------	--------------------

---

**Description**

Lists bundles for a content item

**Usage**

```
get_bundles(content)
```

```
delete_bundle(content, bundle_id)
```

**Arguments**

content	A R6 Content item, as returned by <code>content_item()</code>
bundle_id	A specific bundle ID for a content item

**See Also**

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

get_content	<i>Get information about content on the Posit Connect server</i>
-------------	--

---

**Description**

Get information about content on the Posit Connect server

**Usage**

```
get_content(src, guid = NULL, owner_guid = NULL, name = NULL, ..., .p = NULL)
```

**Arguments**

src	A Connect object
guid	The guid for a particular content item
owner_guid	The unique identifier of the user who owns the content
name	The content name specified when the content was created
...	Extra arguments. Currently not used.
.p	Optional. A predicate function, passed as-is to <code>purrr::keep()</code> before turning the response into a tibble. Can be useful for performance.

**Details**

Please see <https://docs.posit.co/connect/api/#get-v1/content> for more information.

**Value**

A tibble with the following columns:

- `guid`: The unique identifier of this content item.
- `name`: A simple, URL-friendly identifier. Allows alpha-numeric characters, hyphens ("-"), and underscores ("\_").
- `title`: The title of this content.
- `description`: A rich description of this content
- `access_type`: Access type describes how this content manages its viewers. It may have a value of `all`, `logged_in` or `acl`. The value `all` is the most permissive; any visitor to Posit Connect will be able to view this content. The value `logged_in` indicates that all Posit Connect accounts may view the content. The `acl` value lets specifically enumerated users and groups view the content. Users configured as collaborators may always view content.
- `connection_timeout`: Maximum number of seconds allowed without data sent or received across a client connection. A value of 0 means connections will never time-out (not recommended). When null, the default `Scheduler.ConnectionTimeout` is used. Applies only to content types that are executed on demand.
- `read_timeout`: Maximum number of seconds allowed without data received from a client connection. A value of 0 means a lack of client (browser) interaction never causes the connection to close. When null, the default `Scheduler.ReadTimeout` is used. Applies only to content types that are executed on demand.
- `init_timeout`: The maximum number of seconds allowed for an interactive application to start. Posit Connect must be able to connect to a newly launched Shiny application, for example, before this threshold has elapsed. When null, the default `Scheduler.InitTimeout` is used. Applies only to content types that are executed on demand.
- `idle_timeout`: The maximum number of seconds a worker process for an interactive application to remain alive after it goes idle (no active connections). When null, the default `Scheduler.IdleTimeout` is used. Applies only to content types that are executed on demand.
- `max_processes`: Specifies the total number of concurrent processes allowed for a single interactive application. When null, the default `Scheduler.MaxProcesses` setting is used. Applies only to content types that are executed on demand.

- `min_processes`: Specifies the minimum number of concurrent processes allowed for a single interactive application. When null, the default `Scheduler.MinProcesses` is used. Applies only to content types that are executed on demand.
- `max_conns_per_process`: Specifies the maximum number of client connections allowed to an individual process. Incoming connections which will exceed this limit are routed to a new process or rejected. When null, the default `Scheduler.MaxConnsPerProcess` is used. Applies only to content types that are executed on demand.
- `load_factor`: Controls how aggressively new processes are spawned. When null, the default `Scheduler.LoadFactor` is used. Applies only to content types that are executed on demand.
- `created_time`: The timestamp (RFC3339) indicating when this content was created.
- `last_deployed_time`: The timestamp (RFC3339) indicating when this content last had a successful bundle deployment performed.
- `bundle_id`: The identifier for the active deployment bundle. Automatically assigned upon the successful deployment of that bundle.
- `app_mode`: The runtime model for this content. Has a value of `unknown` before data is deployed to this item. Automatically assigned upon the first successful bundle deployment. Allowed: `api`, `jupyter-static`, `python-api`, `python-bokeh`, `python-dash`, `python-streamlit`, `rmd-shiny`, `rmd-static`, `shiny`, `static`, `tensorflow-saved-model`, `unknown`.
- `content_category`: Describes the specialization of the content runtime model. Automatically assigned upon the first successful bundle deployment.
- `parameterized`: True when R Markdown rendered content allows parameter configuration. Automatically assigned upon the first successful bundle deployment. Applies only to content with an `app_mode` of `rmd-static`.
- `r_version`: The version of the R interpreter associated with this content. The value `null` represents that an R interpreter is not used by this content or that the R package environment has not been successfully restored. Automatically assigned upon the successful deployment of a bundle.
- `py_version`: The version of the Python interpreter associated with this content. The value `null` represents that a Python interpreter is not used by this content or that the Python package environment has not been successfully restored. Automatically assigned upon the successful deployment of a bundle.
- `run_as`: The UNIX user that executes this content. When null, the default `Applications.RunAs` is used. Applies only to executable content types - not static.
- `run_as_current_user`: Indicates if this content is allowed to execute as the logged-in user when using PAM authentication. Applies only to executable content types - not static.
- `owner_guid`: The unique identifier for the owner
- `content_url`: The URL associated with this content. Computed from the associated vanity URL or GUID for this content.
- `dashboard_url`: The URL within the Connect dashboard where this content can be configured. Computed from the GUID for this content.
- `role`: The relationship of the accessing user to this content. A value of `owner` is returned for the content owner. `editor` indicates a collaborator. The `viewer` value is given to users who are permitted to view the content. A `none` role is returned for administrators who cannot view the content but are permitted to view its configuration. Computed at the time of the request.
- `id`: The internal numeric identifier of this content item

**Examples**

```
## Not run:
library(connectapi)
client <- connect()

get_content(client)

## End(Not run)
```

---

get_environment	<i>Manage Environment Variables</i>
-----------------	-------------------------------------

---

**Description**

Manage Environment Variables for a piece of content.

**Usage**

```
get_environment(content)

set_environment_new(env, ...)

set_environment_remove(env, ...)

set_environment_all(env, ...)
```

**Arguments**

content	An R6 Content object as returned by <code>content_item()</code>
env	An R6 Environment object as returned by <code>get_environment()</code>
...	name = value pairs of environment variable names and values

**Details**

`get_environment()` returns an Environment object for use with "setter" methods

`set_environment_new()` updates environment values (either creating new values or updating existing). Set NA as the value to remove a variable.

`set_environment_remove()` is a wrapper on `set_environment_new()` that allows removing named / listed variables quickly

`set_environment_all()` sets *all* environment variable values (will remove variables not specified)

**See Also**

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

 get\_groups

*Get group information from the Posit Connect server*


---

**Description**

Get group information from the Posit Connect server

**Usage**

```
get_groups(src, page_size = 500, prefix = NULL, limit = Inf)
```

**Arguments**

src	The source object.
page_size	The number of records to return per page (max 500).
prefix	Filters groups by prefix (group name). The filter is case insensitive.
limit	The number of groups to retrieve before paging stops. limit will be ignored is prefix is not NULL. To limit results when prefix is not NULL, change page_size.

**Details**

Please see <https://docs.posit.co/connect/api/#get-/v1/groups> for more information.

**Value**

A tibble with the following columns:

- `guid`: The unique identifier of the group
- `name`: The group name
- `owner_guid`: The group owner's unique identifier. When using LDAP or Proxied authentication with group provisioning enabled this property will always be null.

**See Also**

Other groups functions: [get\\_group\\_content\(\)](#), [get\\_group\\_members\(\)](#)

## Examples

```
## Not run:
library(connectapi)
client <- connect()

# get all groups
get_groups(client, limit = Inf)

## End(Not run)
```

---

get\_group\_content      *Get content access permissions for a group or groups*

---

## Description

Get content access permissions for a group or groups

## Usage

```
get_group_content(src, guides)
```

## Arguments

src	A Connect client object
guides	A character vector of group guides

## Value

A tibble with the following columns:

- group\_guid: The group's GUID
- group\_name: The group's name
- content\_guid: The content item's GUID
- content\_name: The content item's name
- content\_title: The content item's title
- access\_type: The access type of the content item ("all", "logged\_in", or "acl")
- role: The access type that members of the group have to the content item, "publisher" or "viewer".

## See Also

Other groups functions: [get\\_group\\_members\(\)](#), [get\\_groups\(\)](#)

## Examples

```
## Not run:
library(connectapi)
client <- connect()

# Get a data frame of groups
groups <- get_groups(client)

# Get permissions for a single group by passing in the corresponding row.
get_group_content(client, groups[1, "guid"])
dplyr::filter(groups, name = "research_scientists") %>%
  dplyr::pull(guid) %>%
  get_group_content(client, .)

# Get permissions for all groups by passing in all group guids.
get_group_content(client, groups$guid)

## End(Not run)
```

---

get_group_members	<i>Get users within a specific group</i>
-------------------	--

---

## Description

Get users within a specific group

## Usage

```
get_group_members(src, guid)
```

## Arguments

src	A Connect client object
guid	A group GUID identifier

## Details

Please see [https://docs.posit.co/connect/api/#get-v1/groups/-group\\_guid-/members](https://docs.posit.co/connect/api/#get-v1/groups/-group_guid-/members) for more information.

## Value

A tibble with the following columns:

- email: The user's email
- username: The user's username
- first\_name: The user's first name



- last\_name: The user's last name
- user\_role: The user's role. It may have a value of administrator, publisher or viewer.
- created\_time: The timestamp (in RFC3339 format) when the user was created in the Posit Connect server
- updated\_time: The timestamp (in RFC3339 format) when the user was last updated in the Posit Connect server
- active\_time: The timestamp (in RFC3339 format) when the user was last active on the Posit Connect server
- confirmed: When false, the created user must confirm their account through an email. This feature is unique to password authentication.
- locked: Whether or not the user is locked
- guid: The user's GUID, or unique identifier, in UUID RFC4122 format

### See Also

Other groups functions: [get\\_group\\_content\(\)](#), [get\\_groups\(\)](#)

### Examples

```
## Not run:
library(connectapi)
client <- connect()

# get the first 20 groups
groups <- get_groups(client)

group_guid <- groups$guid[1]

get_group_members(client, guid = group_guid)

## End(Not run)
```

---

get\_image

*Get the Content Image*

---

### Description

#### [Deprecated]

Please use [get\\_thumbnail](#), [delete\\_thumbnail](#), and [has\\_thumbnail](#) instead.

`get_image` saves the content image to the given path (default: temp file). `delete_image` removes the image (optionally saving to the given path) `has_image` returns whether the content has an image

**Usage**

```
get_image(content, path = NULL)
```

```
delete_image(content, path = NULL)
```

```
has_image(content)
```

**Arguments**

content	A content object
path	optional. The path to the image on disk

**See Also**

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

get_job	<i>Retrieve details about a server process associated with a content_item, such as a FastAPI app or a Quarto render.</i>
---------	--

---

**Description**

Retrieve details about a server process associated with a `content_item`, such as a FastAPI app or a Quarto render.

**Usage**

```
get_job(content, key)
```

**Arguments**

content	A Content object, as returned by <code>content_item()</code>
key	The key for a job

**See Also**

Other job functions: [get\\_jobs\(\)](#), [terminate\\_jobs\(\)](#)

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

get\_jobs

*Get Jobs*


---

### Description

Retrieve details about server processes associated with a `content_item`, such as a FastAPI app or a Quarto render.

### Usage

```
get_jobs(content)
```

### Arguments

`content`            A Content object, as returned by `content_item()`

### Details

Note that Connect versions below 2022.10.0 use a legacy endpoint, and will not return the complete set of information provided by newer versions.

### Value

A data frame with a row for each job, with the following columns:

- `id`: The job identifier.
- `ppid`: The job's parent process identifier (see Note 1).
- `pid`: The job's process identifier.
- `key`: The job's unique key identifier.
- `remote_id`: The job's identifier for off-host execution configurations (see Note 1).
- `app_id`: The job's parent content identifier
- `variant_id`: The identifier of the variant owning this job.
- `bundle_id`: The identifier of a content bundle linked to this job.
- `start_time`: The timestamp (RFC3339) indicating when this job started.
- `end_time`: The timestamp (RFC3339) indicating when this job finished.
- `last_heartbeat_time`: The timestamp (RFC3339) indicating the last time this job was observed to be running (see Note 1).
- `queued_time`: The timestamp (RFC3339) indicating when this job was added to the queue to be processed. Only scheduled reports will present a value for this field (see Note 1).
- `queue_name`: The name of the queue which processes the job. Only scheduled reports will present a value for this field (see Note 1).
- `tag`: A tag to identify the nature of the job.
- `exit_code`: The job's exit code. Present only when job is finished.

- **status**: The current status of the job. On Connect 2022.10.0 and newer, one of Active: 0, Finished: 1, Finalized: 2; on earlier versions, Active: 0, otherwise NA.
- **hostname**: The name of the node which processes the job.
- **cluster**: The location where this content runs. Content running on the same server as Connect will have either a null value or the string Local. Gives the name of the cluster when run external to the Connect host (see Note 1).
- **image**: The location where this content runs. Content running on the same server as Connect will have either a null value or the string Local. References the name of the target image when content runs in a clustered environment such as Kubernetes (see Note 1).
- **run\_as**: The UNIX user that executed this job.

### Note

1. On Connect instances earlier than 2022.10.0, these columns will contain NA values.

### See Also

Other job functions: [get\\_job\(\)](#), [terminate\\_jobs\(\)](#)

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

get\_oauth\_content\_credentials

*Perform an OAuth credential exchange to obtain a content-specific OAuth access token.*

---

### Description

Perform an OAuth credential exchange to obtain a content-specific OAuth access token.

### Usage

```
get_oauth_content_credentials(connect, content_session_token = NULL)
```

### Arguments

**connect**            A Connect R6 object.

**content\_session\_token**

Optional. The content session token. This token can only be obtained when the content is running on a Connect server. The token identifies the service account integration previously configured by the publisher on the Connect server. Defaults to the value from the environment variable: `CONNECT_CONTENT_SESSION_TOKEN`

## Details

Please see <https://docs.posit.co/connect/user/oauth-integrations/#obtaining-a-service-account-oauth-access-token> for more information.

## Value

The OAuth credential exchange response.

## Examples

```
## Not run:
library(connectapi)
library(plumber)
client <- connect()

#* @get /do
function(req) {
  credentials <- get_oauth_content_credentials(client)

  # ... do something with `credentials$access_token` ...

  "done"
}

## End(Not run)
```

---

`get_oauth_credentials` *Perform an OAuth credential exchange to obtain a viewer's OAuth access token.*

---

## Description

Perform an OAuth credential exchange to obtain a viewer's OAuth access token.

## Usage

```
get_oauth_credentials(connect, user_session_token)
```

## Arguments

`connect` A Connect R6 object.

`user_session_token`

The content viewer's session token. This token can only be obtained when the content is running on a Connect server. The token identifies the user who is viewing the content interactively on the Connect server.

Read this value from the HTTP header: `Posit-Connect-User-Session-Token`

## Details

Please see <https://docs.posit.co/connect/user/oauth-integrations/#obtaining-a-viewer-oauth-access-token> for more information.

## Value

The OAuth credential exchange response.

## Examples

```
## Not run:
library(connectapi)
library(plumber)
client <- connect()

#* @get /do
function(req) {
  user_session_token <- req$HTTP_POSIT_CONNECT_USER_SESSION_TOKEN
  credentials <- get_oauth_credentials(client, user_session_token)

  # ... do something with `credentials$access_token` ...

  "done"
}

## End(Not run)
```

---

get\_procs

*Get Real-Time Process Data*

---

## Description

**[Experimental]** This returns real-time process data from the Posit Connect API. It requires administrator privileges to use. NOTE that this only returns data for the server that responds to the request (i.e. in a Highly Available cluster)

## Usage

```
get_procs(src)
```

## Arguments

src            The source object

**Value**

A tibble with the following columns:

- pid: The PID of the current process
- appId: The application ID
- appId: The application GUID
- appName: The application name
- appUrl: The application URL
- appRunAs: The application RunAs user
- type: The type of process
- cpuCurrent: The current CPU usage
- cpuTotal: The total CPU usage
- ram: The current RAM usage

---

get\_runtimes

*Get available runtimes on server*

---

**Description**

Get a table showing available versions of R, Python, Quarto, and Tensorflow on the Connect server.

**Usage**

```
get_runtimes(client, runtimes = NULL)
```

**Arguments**

client	A Connect object.
runtimes	Optional. A character vector of runtimes to include. Must be some combination of "r", "python", "quarto", and "tensorflow". Quarto is only supported on Connect >= 2021.08.0, and Tensorflow is only supported on Connect >= 2024.03.0.

**Value**

A tibble with columns for runtime, version, and cluster\_name and image\_name. Cluster name and image name are only meaningful on Connect instances running off-host execution.

**Examples**

```
## Not run:
library(connectapi)
client <- connect()
get_runtimes(client, runtimes = c("r", "python", "tensorflow"))

## End(Not run)
```

---

get\_runtime\_caches      *Get runtime caches*

---

**Description**

View the runtime caches on a Connect server. Requires Administrator privileges.

**Usage**

```
get_runtime_caches(client)
```

**Arguments**

client              A Connect object.

**Value**

A tibble of runtime caches on the server, showing language, version and image\_name. For Connect servers not using off-host execution, image\_name is "Local".

**See Also**

[delete\\_runtime\\_cache\(\)](#)

Other server management functions: [delete\\_runtime\\_cache\(\)](#)

**Examples**

```
## Not run:  
client <- connect()  
get_runtime_caches(client)  
  
## End(Not run)
```

---

get\_tags              *Get all Tags on the server*

---

**Description**

Tag manipulation and assignment functions



**Usage**

```

get_tags(src)

get_tag_data(src)

create_tag(src, name, parent = NULL)

create_tag_tree(src, ...)

delete_tag(src, tag)

get_content_tags(content)

set_content_tag_tree(content, ...)

set_content_tags(content, ...)

filter_tag_tree_id(tags, ids)

filter_tag_tree_chr(tags, pattern)

```

**Arguments**

src	The source object
name	The name of the tag to create
parent	optional. A connect_tag_tree object (as returned by get_tags()) pointed at the parent tag
...	Additional arguments

Manage tags (requires Administrator role):

- get\_tags() - returns a "tag tree" object that can be traversed with tag\_tree\$tag1\$childtag
- get\_tag\_data() - returns a tibble of tag data
- create\_tag() - create a tag by specifying the Parent directly
- create\_tag\_tree() - create tag(s) by specifying the "desired" tag tree hierarchy
- delete\_tag() - delete a tag (and its children). WARNING: will disassociate any content automatically

Manage content tags:

- get\_content\_tags() - return a connect\_tag\_tree object corresponding to the tags for a piece of content.
- set\_content\_tag\_tree() - attach a tag to content by specifying the desired tag tree
- set\_content\_tags() - Set multiple tags at once by providing connect\_tag\_tree objects

Search a tag tree:

- filter\_tag\_tree\_chr() - filters a tag tree based on a regex

	<ul style="list-style-type: none"> <li>• <code>filter_tag_tree_id()</code> - filters a tag tree based on an id</li> </ul>
tag	A <code>connect_tag_tree</code> object (as returned by <code>get_tags()</code> )
content	An R6 Content object, as returned by <code>content_item()</code>
tags	A <code>connect_tag_tree</code> object (as returned by <code>get_tags()</code> )
ids	A list of ids to filter the tag tree by
pattern	A regex to filter the tag tree by (it is passed to <code>grep1</code> )

---

<code>get_thumbnail</code>	<i>Get content item thumbnail</i>
----------------------------	-----------------------------------

---

### Description

Download the thumbnail for a content item on Connect to a file on your computer.

### Usage

```
get_thumbnail(content, path = NULL)
```

### Arguments

content	A content item.
path	Optional. A path to a file used to write the thumbnail image. If no path is provided, a temporary file with the correct file extension is created.

### Value

The path to the downloaded image file, if content has a thumbnail; otherwise NA.

### See Also

Other thumbnail functions: [delete\\_thumbnail\(\)](#), [has\\_thumbnail\(\)](#), [set\\_thumbnail\(\)](#)

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

### Examples

```
## Not run:
client <- connect()
item <- content_item(client, "8f37d6e0-3395-4a2c-aa6a-d7f2fe1babb0")
thumbnail <- get_thumbnail(item)

## End(Not run)
```

---

get_timezones	<i>Get TimeZones</i>
---------------	----------------------

---

**Description**

Get the available timezones from the server.

**Usage**

```
get_timezones(connect)
```

**Arguments**

connect            An R6 Connect object

**Value**

A TimeZone vector to be used for setting time zones

**See Also**

Other schedule functions: [get\\_variant\\_schedule\(\)](#), [set\\_schedule\(\)](#)

---

get_usage_shiny	<i>Get usage information for deployed shiny applications</i>
-----------------	--

---

**Description**

Get usage information for deployed shiny applications

**Usage**

```
get_usage_shiny(  
  src,  
  content_guid = NULL,  
  min_data_version = NULL,  
  from = NULL,  
  to = NULL,  
  limit = 500,  
  previous = NULL,  
  nxt = NULL,  
  asc_order = TRUE  
)
```

**Arguments**

<code>src</code>	the source object
<code>content_guid</code>	Filter results by content GUID
<code>min_data_version</code>	Filter by data version. Records with a data version lower than the given value will be excluded from the set of results.
<code>from</code>	The timestamp that starts the time window of interest. Any usage information that ends prior to this timestamp will not be returned. Individual records may contain a starting time that is before this if they end after it or have not finished. Must be of class Date or POSIX
<code>to</code>	The timestamp that ends the time window of interest. Any usage information that starts after this timestamp will not be returned. Individual records may contain an ending time that is after this (or no ending time) if they start before it. Must be of class Date or POSIX
<code>limit</code>	The number of records to return.
<code>previous</code>	Retrieve the previous page of Shiny application usage logs relative to the provided value. This value corresponds to an internal reference within the server and should be sourced from the appropriate attribute within the paging object of a previous response.
<code>nxt</code>	Retrieve the next page of Shiny application usage logs relative to the provided value. This value corresponds to an internal reference within the server and should be sourced from the appropriate attribute within the paging object of a previous response.
<code>asc_order</code>	Defaults to TRUE; Determines if the response records should be listed in ascending or descending order within the response. Ordering is by the started timestamp field.

**Details**

Please see <https://docs.posit.co/connect/api/#get-v1/instrumentation/shiny/usage> for more information.

**Value**

A tibble with the following columns:

- `content_guid`: The GUID, in RFC4122 format, of the Shiny application this information pertains to.
- `user_guid`: The GUID, in RFC4122 format, of the user that visited the application.
- `started`: The timestamp, in RFC3339 format, when the user opened the application.
- `ended`: The timestamp, in RFC3339 format, when the user left the application.
- `data_version`: The data version the record was recorded with. The Shiny Application Events section of the Posit Connect Admin Guide explains how to interpret `data_version` values.

**Examples**

```
## Not run:
library(connectapi)
client <- connect()

from <- Sys.Date() - lubridate::days(5)
get_usage_shiny(client, limit = 20, from = from)

## End(Not run)
```

---

get_usage_static	<i>Get usage information from deployed static content</i>
------------------	---

---

**Description**

This function retrieves usage information from static content on the Posit Connect server (e.g. Rmarkdown, Jupyter Notebooks)

**Usage**

```
get_usage_static(
  src,
  content_guid = NULL,
  min_data_version = NULL,
  from = NULL,
  to = NULL,
  limit = 500,
  previous = NULL,
  next = NULL,
  asc_order = TRUE
)
```

**Arguments**

src	the source object
content_guid	Filter results by content GUID
min_data_version	Filter by data version. Records with a data version lower than the given value will be excluded from the set of results.
from	The timestamp that starts the time window of interest. Any usage information that ends prior to this timestamp will not be returned. Individual records may contain a starting time that is before this if they end after it or have not finished. Must be of class Date or POSIX

<code>to</code>	The timestamp that ends the time window of interest. Any usage information that starts after this timestamp will not be returned. Individual records may contain an ending time that is after this (or no ending time) if they start before it. Must be of class <code>Date</code> or <code>POSIX</code>
<code>limit</code>	The number of records to return.
<code>previous</code>	Retrieve the previous page of Shiny application usage logs relative to the provided value. This value corresponds to an internal reference within the server and should be sourced from the appropriate attribute within the paging object of a previous response.
<code>nxt</code>	Retrieve the next page of Shiny application usage logs relative to the provided value. This value corresponds to an internal reference within the server and should be sourced from the appropriate attribute within the paging object of a previous response.
<code>asc_order</code>	Defaults to <code>TRUE</code> ; Determines if the response records should be listed in ascending or descending order within the response. Ordering is by the started timestamp field.

### Details

Please see <https://docs.posit.co/connect/api/#get-/v1/instrumentation/content/visits> for more information.

### Value

A tibble with the following columns:

- `content_guid`: The GUID, in RFC4122 format, of the Shiny application this information pertains to.
- `user_guid`: The GUID, in RFC4122 format, of the user that visited the application.
- `variant_key`: The key of the variant the user visited. This will be null for static content.
- `time`: The timestamp, in RFC3339 format, when the user visited the content.
- `rendering_id`: The ID of the rendering the user visited. This will be null for static content.
- `bundle_id`: The ID of the particular bundle used.
- `data_version`: The data version the record was recorded with. The Rendered and Static Content Visit Events section of the Posit Connect Admin Guide explains how to interpret `data_version` values.

### Examples

```
## Not run:
library(connectapi)
client <- connect()

from <- Sys.Date() - lubridate::days(5)
get_usage_static(client, limit = 20, from = from)

## End(Not run)
```

---

`get_users`*Get user information from the Posit Connect server*

---

### Description

Get user information from the Posit Connect server

### Usage

```
get_users(  
  src,  
  page_size = 500,  
  prefix = NULL,  
  limit = Inf,  
  user_role = NULL,  
  account_status = NULL  
)
```

### Arguments

<code>src</code>	The source object
<code>page_size</code>	the number of records to return per page (max 500)
<code>prefix</code>	Filters users by prefix (username, first name, or last name). The filter is case insensitive.
<code>limit</code>	The max number of records to return
<code>user_role</code>	Optionally filter by user role ("administrator", "publisher", "viewer"). Pass in a vector of multiple roles to match any value (boolean OR). When NULL (the default), results are not filtered.
<code>account_status</code>	Optionally filter by account status ("locked", "licensed", "inactive"). Pass a vector of multiple statuses to match any value (boolean OR). When NULL (the default), results are not filtered.

### Details

Please see <https://docs.posit.co/connect/api/#get-v1/users> for more information.

### Value

A tibble with the following columns:

- `email`: The user's email
- `username`: The user's username
- `first_name`: The user's first name
- `last_name`: The user's last name
- `user_role`: The user's role. It may have a value of administrator, publisher or viewer.

- `created_time`: The timestamp (in RFC3339 format) when the user was created in the Posit Connect server
- `updated_time`: The timestamp (in RFC3339 format) when the user was last updated in the Posit Connect server
- `active_time`: The timestamp (in RFC3339 format) when the user was last active on the Posit Connect server
- `confirmed`: When false, the created user must confirm their account through an email. This feature is unique to password authentication.
- `locked`: Whether or not the user is locked
- `guid`: The user's GUID, or unique identifier, in UUID RFC4122 format

### Examples

```
## Not run:
library(connectapi)
client <- connect()

# Get all users
get_users(client)

# Get all licensed users
get_users(client, account_status = "licensed")

# Get all users who are administrators or publishers
get_users(client, user_role = c("administrator", "publisher"))

## End(Not run)
```

---

<code>get_vanity_url</code>	<i>Get the Vanity URL</i>
-----------------------------	---------------------------

---

### Description

Gets the Vanity URL for a piece of content.

### Usage

```
get_vanity_url(content)
```

### Arguments

`content`            A Content object

### Value

A character string (or NULL if not defined)



**See Also**

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

get_vanity_urls	<i>Get all vanity URLs</i>
-----------------	----------------------------

---

**Description**

Get a table of all vanity URLs on the server. Requires administrator privileges.

**Usage**

```
get_vanity_urls(client)
```

**Arguments**

client            A Connect object.

**Value**

A tibble with columns for content\_guid, path, and created\_time.

**Examples**

```
## Not run:  
library(connectapi)  
client <- connect()  
get_vanity_urls(client)  
  
## End(Not run)
```

---

get_variants	<i>Get Variant</i>
--------------	--------------------

---

**Description**

**[Experimental]** Work with variants

**Usage**

```
get_variants(content)

get_variant(content, key)

get_variant_default(content)
```

**Arguments**

content	An R6 Content object. Returned from content_item()
key	The Variant key for a specific variant

**Details**

- get\_variants() returns a tibble with variant data for a content\_item
- get\_variant\_default() returns the default variant for a content\_item
- get\_variant() returns a specific variant for a content\_item (specified by key)

**See Also**

Other variant functions: [get\\_variant\\_renderings\(\)](#)  
Other variant functions: [get\\_variant\\_renderings\(\)](#)  
Other variant functions: [get\\_variant\\_renderings\(\)](#)

---

get\_variant\_renderings

*Render a Variant*

---

**Description**

**[Experimental]** Get details about renderings (i.e. render history) or execute a variant on demand

**Usage**

```
get_variant_renderings(variant)

variant_render(variant)
```

**Arguments**

variant	An R6 Variant object. As returned by get_variant() or get_variant_default()
---------	---

**Details**

- get\_variant\_renderings() returns all renderings / content for a particular variant. Returns a tibble
- variant\_render() executes a variant on demand. Returns a VariantTask object

**See Also**

Other variant functions: [get\\_variants\(\)](#)

---

*get\_variant\_schedule*    *Get a Variant Schedule*

---

**Description**

**[Experimental]** Gets the schedule associated with a Variant.

**Usage**

```
get_variant_schedule(variant)
```

**Arguments**

variant            A Variant object, as returned by [get\\_variant\(\)](#) or [get\\_variant\\_default\(\)](#)

**Value**

A VariantSchedule object

**See Also**

Other schedule functions: [get\\_timezones\(\)](#), [set\\_schedule\(\)](#)

---

*git*                            *Git Repository Helpers*

---

**Description**

**[Experimental]** These functions help use Posit Connect's configured authorization to query available branches and subdirectories for deployment using [deploy\\_repo\(\)](#)

**Usage**

```
repo_check_account(client, host)
```

```
repo_check_branches(client, repository)
```

```
repo_check_branches_ref(client, repository)
```

```
repo_check_manifest_dirs(client, repository, branch)
```

**Arguments**

client	A Connect R6 object
host	The git repository host (with schema). For example, "https://github.com"
repository	The git repository to explore or consider deploying
branch	The git branch to explore for subdirectories

**Details**

- `repo_check_account()` messages whether an account is in use, and then returns that account
- `repo_check_branches()` retrieves which branches are available, returning in a named list
- `repo_check_manifest_dirs()` retrieves which directories contain a `manifest.json`, returning in a named list

**See Also**

`connectapi::deploy_repo`

Other content functions: `content_delete()`, `content_item()`, `content_title()`, `content_update()`, `create_random_name()`, `dashboard_url()`, `dashboard_url_chr()`, `delete_thumbnail()`, `delete_vanity_url()`, `deploy_repo()`, `get_bundles()`, `get_environment()`, `get_image()`, `get_job()`, `get_jobs()`, `get_thumbnail()`, `get_vanity_url()`, `has_thumbnail()`, `permissions`, `set_image_path()`, `set_run_as()`, `set_thumbnail()`, `set_vanity_url()`, `swap_vanity_url()`, `terminate_jobs()`, `verify_content_name()`

---

`groups_create_remote`    *Create a Remote Group*

---

**Description**

Create a Remote Group

**Usage**

```
groups_create_remote(connect, prefix, expect = 1, check = TRUE, exact = FALSE)
```

**Arguments**

connect	An R6 Connect object.
prefix	character. The prefix of the user name to search for.
expect	number. Optional. The number of responses to expect for this search.
check	boolean. Optional. Whether to check for local existence first.
exact	boolean. Optional. Whether to only create groups whose name exactly matches the provided prefix.

**Value**

The results of creating the groups.

---

has_thumbnail	<i>Check content item thumbnail</i>
---------------	-------------------------------------

---

### Description

Check whether a content item has a thumbnail.

### Usage

```
has_thumbnail(content)
```

### Arguments

content            A content item.

### Value

TRUE if the content item has a thumbnail, otherwise FALSE. Throws an error if you do not have permission to view the thumbnail.

### See Also

Other thumbnail functions: [delete\\_thumbnail\(\)](#), [get\\_thumbnail\(\)](#), [set\\_thumbnail\(\)](#)

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git\\_permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

### Examples

```
## Not run:  
client <- connect()  
item <- content_item(client, "8f37d6e0-3395-4a2c-aa6a-d7f2fe1babd0")  
has_thumbnail(item)  
  
## End(Not run)
```

---

page_cursor	<i>Paging</i>
-------------	---------------

---

**Description**

Helper functions that make paging easier in the Posit Connect Server API.

Helper functions that make paging easier in the Posit Connect Server API.

**Usage**

```
page_cursor(client, req, limit = Inf)
```

```
page_offset(client, req, limit = Inf)
```

**Arguments**

client	A Connect client object
req	The request that needs to be paged
limit	A row limit

**Value**

The aggregated results from all requests

The aggregated results from all requests

---

permissions	<i>Content permissions</i>
-------------	----------------------------

---

**Description**

Get or set content permissions for a content item

**Usage**

```
content_add_user(content, guid, role = c("viewer", "owner"))
```

```
content_add_group(content, guid, role = c("viewer", "owner"))
```

```
content_delete_user(content, guid)
```

```
content_delete_group(content, guid)
```

```
get_user_permission(content, guid, add_owner = TRUE)
```

```
get_my_permission(content, add_owner = TRUE)
```

```
get_group_permission(content, guid)
```

```
get_content_permissions(content, add_owner = TRUE)
```

### Arguments

content	An R6 content object
guid	The guid associated with either a user (for <code>content_add_user</code> ) or group (for <code>content_add_group</code> )
role	The role to assign to a user. Either "viewer" or "owner." Defaults to "viewer"
add_owner	Optional. Whether to include the owner in returned permission sets. Default is TRUE. The owner will have an <code>NA_character_</code> permission "id"

### Details

Permission modification:

- `content_add_*` adds a permission to the content
- `content_delete_*` removes a permission from the content

Permission retrieval:

- `get_content_permissions()` lists permissions
- `get_my_permission()` gets the permission associated with the caller.
- `get_user_permission()` gets the permissions associated with a given user. It does not evaluate group memberships
- `get_group_permission()` gets the permissions associated with a given group.

NOTE: by default, the owner is injected with an "NA\_character\_" permission id. This makes it easier to find / isolate this record.

### See Also

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

poll_task	<i>Poll Task</i>
-----------	------------------

---

### Description

Polls a task, waiting for information about a deployment. If the task has results, the output will be a modified "Task" object with `task$get_data()` available to retrieve the results.

### Usage

```
poll_task(task, wait = 1, callback = message)
```

### Arguments

task	A Task object
wait	The interval to wait between polling
callback	A function to be called for each message received. Set to NULL for no callback

### Details

For a simple way to silence messages, set `callback = NULL`

### Value

Task The Task object that was input

### See Also

Other deployment functions: [bundle\\_dir\(\)](#), [bundle\\_path\(\)](#), [bundle\\_static\(\)](#), [deploy\(\)](#), [download\\_bundle\(\)](#)

---

PositConnect	<i>Class representing a Connect API client</i>
--------------	--

---

### Description

Class representing a Connect API client

Class representing a Connect API client

### Usage

```
client <- Connect$new(server = 'connect.example.com',
  apiKey = 'mysecretkey')
client$get_apps()
client$get_tags()
```



## Details

This class allows a user to interact with a Connect server via the Connect API. Authentication is done by providing an API key.

## Public fields

`server` The base URL of your Posit Connect server.

`api_key` Your Posit Connect API key.

`tags` The initial set of tags.

`tag_map` The initial tag map.

`httr_additions` An initial set of httr configuration added to each HTTP call.

`using_auth` Indicates that the API key is added to each HTTP call.

## Active bindings

`version` The server version.

## Methods

### Public methods:

- `Connect$get_connect()`
- `Connect$new()`
- `Connect$httr_config()`
- `Connect$print()`
- `Connect$raise_error()`
- `Connect$add_auth()`
- `Connect$api_url()`
- `Connect$server_url()`
- `Connect$request()`
- `Connect$GET()`
- `Connect$PUT()`
- `Connect$HEAD()`
- `Connect$DELETE()`
- `Connect$PATCH()`
- `Connect$POST()`
- `Connect$me()`
- `Connect$get_dashboard_url()`
- `Connect$get_tags()`
- `Connect$get_tag_id()`
- `Connect$get_tag_tree()`
- `Connect$tag_create_safe()`
- `Connect$tag_create()`
- `Connect$tag()`

- `Connect$tag_delete()`
- `Connect$get_apps()`
- `Connect$get_schedule()`
- `Connect$content_create()`
- `Connect$content_upload()`
- `Connect$content_deploy()`
- `Connect$content()`
- `Connect$task()`
- `Connect$set_content_tag()`
- `Connect$remove_content_tag()`
- `Connect$user()`
- `Connect$users()`
- `Connect$users_remote()`
- `Connect$users_create()`
- `Connect$users_create_remote()`
- `Connect$users_lock()`
- `Connect$users_unlock()`
- `Connect$users_update()`
- `Connect$groups()`
- `Connect$group_members()`
- `Connect$group_member_add()`
- `Connect$group_member_remove()`
- `Connect$groups_create()`
- `Connect$groups_create_remote()`
- `Connect$groups_remote()`
- `Connect$group_content()`
- `Connect$inst_content_visits()`
- `Connect$inst_shiny_usage()`
- `Connect$procs()`
- `Connect$repo_account()`
- `Connect$repo_branches()`
- `Connect$repo_manifest_dirs()`
- `Connect$schedules()`
- `Connect$docs()`
- `Connect$audit_logs()`
- `Connect$vanities()`
- `Connect$server_settings_r()`
- `Connect$server_settings()`
- `Connect$clone()`

**Method** `get_connect()`: Return this connect.

*Usage:*

```
Connect$get_connect()
```

**Method** `new()`: Initialize a new connect.

*Usage:*

```
Connect$new(server, api_key)
```

*Arguments:*

`server` The base URL of your Posit Connect server.

`api_key` Your Posit Connect API key.

**Method** `httr_config()`: Set additional httr configuration that is added to each HTTP call.

*Usage:*

```
Connect$httr_config(...)
```

*Arguments:*

`...` Set of httr configurations.

**Method** `print()`: Print details about this instance.

*Usage:*

```
Connect$print(...)
```

*Arguments:*

`...` Ignored.

**Method** `raise_error()`: Raise an error when the HTTP result is an HTTP error.

*Usage:*

```
Connect$raise_error(res)
```

*Arguments:*

`res` HTTP result.

**Method** `add_auth()`: Returns HTTP authorization headers, or NULL when none are used.

*Usage:*

```
Connect$add_auth()
```

**Method** `api_url()`: Build a URL relative to the API root

*Usage:*

```
Connect$api_url(...)
```

*Arguments:*

`...` path segments

**Method** `server_url()`: Build a URL relative to the server root

*Usage:*

```
Connect$server_url(...)
```

*Arguments:*

`...` path segments

**Method** request(): General wrapper around httr verbs

*Usage:*

```
Connect$request(method, url, ..., parser = "parsed")
```

*Arguments:*

method HTTP request method

url URL to request

... Additional arguments passed to the request function

parser How the response is parsed. If NULL, the httr\_response will be returned. Otherwise, the argument is forwarded to httr::content(res, as = parser).

**Method** GET(): Perform an HTTP GET request of the named API path.

*Usage:*

```
Connect$GET(path, ..., url = self$api_url(path), parser = "parsed")
```

*Arguments:*

path API path relative to the server's /\_\_api\_\_ root.

... Arguments to httr::GET()

url Target URL. Default uses path, but provide url to request a server resource that is not under /\_\_api\_\_

parser How the response is parsed. If NULL, the httr\_response will be returned. Otherwise, the argument is forwarded to httr::content(res, as = parser).

**Method** PUT(): Perform an HTTP PUT request of the named API path.

*Usage:*

```
Connect$PUT(
  path,
  body = "{}",
  ...,
  url = self$api_url(path),
  encode = "json",
  parser = "parsed"
)
```

*Arguments:*

path API path relative to the server's /\_\_api\_\_ root.

body The HTTP payload.

... Arguments to httr::PUT()

url Target URL. Default uses path, but provide url to request a server resource that is not under /\_\_api\_\_

encode How the payload is encoded.

parser How the response is parsed. If NULL, the httr\_response will be returned. Otherwise, the argument is forwarded to httr::content(res, as = parser).

**Method** HEAD(): Perform an HTTP HEAD request of the named API path.

*Usage:*

```
Connect$HEAD(path, ..., url = self$api_url(path))
```

*Arguments:*

path API path relative to the server's `/__api__` root.

... Arguments to `httr::HEAD()`

url Target URL. Default uses path, but provide url to request a server resource that is not under `/__api__` `httr::content(res, as = parser)`.

**Method DELETE():** Perform an HTTP DELETE request of the named API path. Returns the HTTP response object.

*Usage:*

```
Connect$DELETE(path, ..., url = self$api_url(path), parser = NULL)
```

*Arguments:*

path API path relative to the server's `/__api__` root.

... Arguments to `httr::DELETE()`

url Target URL. Default uses path, but provide url to request a server resource that is not under `/__api__`

parser How the response is parsed. If NULL, the `httr_response` will be returned. Otherwise, the argument is forwarded to `httr::content(res, as = parser)`.

**Method PATCH():** Perform an HTTP PATCH request of the named API path.

*Usage:*

```
Connect$PATCH(
  path,
  body = "{}",
  ...,
  url = self$api_url(path),
  encode = "json",
  parser = "parsed"
)
```

*Arguments:*

path API path relative to the server's `/__api__` root.

body The HTTP payload.

... Arguments to `httr::PATCH()`

url Target URL. Default uses path, but provide url to request a server resource that is not under `/__api__`

encode How the payload is encoded.

parser How the response is parsed. If NULL, the `httr_response` will be returned. Otherwise, the argument is forwarded to `httr::content(res, as = parser)`.

**Method POST():** Perform an HTTP POST request of the named API path.

*Usage:*

```
Connect$POST(
  path,
  body = "{}",
  ...,
  url = self$api_url(path),
```

```

    encode = "json",
    parser = "parsed"
)

```

*Arguments:*

*path* API path relative to the server's `/__api__` root.

*body* The HTTP payload.

... Arguments to `httr::POST()`

*url* Target URL. Default uses *path*, but provide *url* to request a server resource that is not under `/__api__`

*encode* How the payload is encoded.

*parser* How the response is parsed. If `NULL`, the `httr_response` will be returned. Otherwise, the argument is forwarded to `httr::content(res, as = parser)`.

**Method `me()`:** Perform an HTTP GET request of the "me" server endpoint.

*Usage:*

```
Connect$me()
```

**Method `get_dashboard_url()`:** Return the base URL of the Connect server.

*Usage:*

```
Connect$get_dashboard_url()
```

**Method `get_tags()`:** Return all tags.

*Usage:*

```
Connect$get_tags(use_cache = FALSE)
```

*Arguments:*

*use\_cache* Indicates that a cached set of tags is used.

**Method `get_tag_id()`:** Get the identifier for the named tag.

*Usage:*

```
Connect$get_tag_id(tagname)
```

*Arguments:*

*tagname* The name of the tag.

**Method `get_tag_tree()`:** Get the tag tree.

*Usage:*

```
Connect$get_tag_tree()
```

**Method `tag_create_safe()`:** Create a tag.

*Usage:*

```
Connect$tag_create_safe(name, parent_id = NULL)
```

*Arguments:*

*name* The tag name.

*parent\_id* The parent identifier.

**Method tag\_create():** Create a tag.

*Usage:*

```
Connect$tag_create(name, parent_id = NULL)
```

*Arguments:*

name The tag name.

parent\_id The parent identifier.

**Method tag():** Get a tag.

*Usage:*

```
Connect$tag(id = NULL)
```

*Arguments:*

id The tag identifier.

**Method tag\_delete():** Delete a tag.

*Usage:*

```
Connect$tag_delete(id)
```

*Arguments:*

id The tag identifier.

**Method get\_apps():** Get content items.

*Usage:*

```
Connect$get_apps(filter = NULL, .collapse = "&", .limit = Inf, page_size = 25)
```

*Arguments:*

filter Named list containing filter conditions.

.collapse How multiple filters are combined.

.limit The limit.

page\_size The page size.

**Method get\_schedule():** Get a schedule.

*Usage:*

```
Connect$get_schedule(schedule_id)
```

*Arguments:*

schedule\_id The schedule identifier.

**Method content\_create():** Create content.

*Usage:*

```
Connect$content_create(name, title = name, ...)
```

*Arguments:*

name The content name.

title The content title.

... Other content fields.

**Method** `content_upload()`: Upload a content bundle.

*Usage:*

```
Connect$content_upload(bundle_path, guid)
```

*Arguments:*

`bundle_path` The path to the bundle archive.

`guid` The content GUID.

**Method** `content_deploy()`: Deploy a content bundle.

*Usage:*

```
Connect$content_deploy(guid, bundle_id)
```

*Arguments:*

`guid` The content GUID.

`bundle_id` The bundle identifier.

**Method** `content()`: Get a content item.

*Usage:*

```
Connect$content(
  guid = NULL,
  owner_guid = NULL,
  name = NULL,
  include = "tags,owner"
)
```

*Arguments:*

`guid` The content GUID.

`owner_guid` The target content owner.

`name` The target name.

`include` Additional response fields.

**Method** `task()`: Get a task.

*Usage:*

```
Connect$task(task_id, first = 0, wait = 5)
```

*Arguments:*

`task_id` The task identifier.

`first` The initial status position.

`wait` Maximum time to wait for update.

**Method** `set_content_tag()`: Set a tag for a content item.

*Usage:*

```
Connect$set_content_tag(content_id, tag_id)
```

*Arguments:*

`content_id` The content identifier.

`tag_id` The tag identifier.



**Method** `remove_content_tag()`: Remove a tag from a content item.

*Usage:*

```
Connect$remove_content_tag(content_id, tag_id)
```

*Arguments:*

`content_id` The content identifier.

`tag_id` The tag identifier.

**Method** `user()`: Get user details.

*Usage:*

```
Connect$user(guid)
```

*Arguments:*

`guid` The user GUID.

**Method** `users()`: Get users.

*Usage:*

```
Connect$users(  
  page_number = 1,  
  prefix = NULL,  
  page_size = 500,  
  user_role = NULL,  
  account_status = NULL  
)
```

*Arguments:*

`page_number` The page number.

`prefix` The search term.

`page_size` The page size.

`user_role` Filter by user role.

`account_status` Filter by account status.

**Method** `users_remote()`: Get remote users.

*Usage:*

```
Connect$users_remote(prefix)
```

*Arguments:*

`prefix` The search term.

**Method** `users_create()`: Create a user.

*Usage:*

```
Connect$users_create(  
  username,  
  email,  
  first_name = NULL,  
  last_name = NULL,  
  password = NULL,  
  user_must_set_password = NULL,
```

```
    user_role = NULL,  
    unique_id = NULL  
  )
```

*Arguments:*

username The username.

email Email address.

first\_name First name.

last\_name Last name.

password The password.

user\_must\_set\_password Indicates that user sets password on first login.

user\_role Role for user.

unique\_id Identifier for user.

**Method** users\_create\_remote(): Create a remote user.

*Usage:*

```
Connect$users_create_remote(temp_ticket)
```

*Arguments:*

temp\_ticket Ticket identifying target remote user.

**Method** users\_lock(): Lock a user.

*Usage:*

```
Connect$users_lock(user_guid)
```

*Arguments:*

user\_guid User GUID.

**Method** users\_unlock(): Unlock a user.

*Usage:*

```
Connect$users_unlock(user_guid)
```

*Arguments:*

user\_guid User GUID.

**Method** users\_update(): Update a user.

*Usage:*

```
Connect$users_update(user_guid, ...)
```

*Arguments:*

user\_guid User GUID.

... User fields.

**Method** groups(): Get groups.

*Usage:*

```
Connect$groups(page_number = 1, prefix = NULL, page_size = 500)
```

*Arguments:*

page\_number The page number.

prefix The search term.

page\_size The page size.

**Method** group\_members(): Get group members.

*Usage:*

```
Connect$group_members(guid)
```

*Arguments:*

guid The group GUID.

**Method** group\_member\_add(): Add a group member.

*Usage:*

```
Connect$group_member_add(group_guid, user_guid)
```

*Arguments:*

group\_guid The group GUID.

user\_guid The user GUID.

**Method** group\_member\_remove(): Remove a group member.

*Usage:*

```
Connect$group_member_remove(group_guid, user_guid)
```

*Arguments:*

group\_guid The group GUID.

user\_guid The user GUID.

**Method** groups\_create(): Create a group.

*Usage:*

```
Connect$groups_create(name)
```

*Arguments:*

name The group name.

**Method** groups\_create\_remote(): Create a remote group.

*Usage:*

```
Connect$groups_create_remote(temp_ticket)
```

*Arguments:*

temp\_ticket Ticket identifying target remote group.

**Method** groups\_remote(): Get remote groups.

*Usage:*

```
Connect$groups_remote(prefix = NULL, limit = 500)
```

*Arguments:*

prefix The search term.

limit The maximal result set size.

**Method** `group_content()`: Get content to which a group has access

*Usage:*

```
Connect$group_content(guid)
```

*Arguments:*

`guid` The group GUID.

**Method** `inst_content_visits()`: Get (non-interactive) content visits.

*Usage:*

```
Connect$inst_content_visits(
  content_guid = NULL,
  min_data_version = NULL,
  from = NULL,
  to = NULL,
  limit = 500,
  previous = NULL,
  nxt = NULL,
  asc_order = TRUE
)
```

*Arguments:*

`content_guid` Content GUID.

`min_data_version` Data version for request.

`from` Start of range.

`to` End of range.

`limit` Result set size.

`previous` Previous item.

`nxt` Next item.

`asc_order` Indicates ascending result order.

**Method** `inst_shiny_usage()`: Get interactive content visits.

Get (non-interactive) content visits.

*Usage:*

```
Connect$inst_shiny_usage(
  content_guid = NULL,
  min_data_version = NULL,
  from = NULL,
  to = NULL,
  limit = 500,
  previous = NULL,
  nxt = NULL,
  asc_order = TRUE
)
```

*Arguments:*

`content_guid` Content GUID.

`min_data_version` Data version for request.

from Start of range.  
to End of range.  
limit Result set size.  
previous Previous item.  
nxt Next item.  
asc\_order Indicates ascending result order.

**Method** `procs()`: Get running processes.

*Usage:*

```
Connect$procs()
```

**Method** `repo_account()`: Determine if Git repository is associated with authorization.

*Usage:*

```
Connect$repo_account(host)
```

*Arguments:*

host Repository URL.

**Method** `repo_branches()`: Get Git repository branches.

*Usage:*

```
Connect$repo_branches(repo)
```

*Arguments:*

repo Repository URL.

**Method** `repo_manifest_dirs()`: Get Git repository directories.

*Usage:*

```
Connect$repo_manifest_dirs(repo, branch)
```

*Arguments:*

repo Repository URL.

branch Repository branch.

**Method** `schedules()`: Get schedules.

*Usage:*

```
Connect$schedules(  
  start = Sys.time(),  
  end = Sys.time() + 60 * 60 * 24 * 7,  
  detailed = FALSE  
)
```

*Arguments:*

start Starting time.

end Ending time.

detailed Indicates detailed schedule information.

**Method** `docs()`: Get documentation.

*Usage:*

```
Connect$docs(docs = "api", browse = TRUE)
```

*Arguments:*

docs Named document.

browse Open a browser.

**Method** `audit_logs()`: Get auditing.

*Usage:*

```
Connect$audit_logs(limit = 500, previous = NULL, nxt = NULL, asc_order = TRUE)
```

*Arguments:*

limit Result set size.

previous Previous item.

nxt Next item.

asc\_order Indicates ascending result order.

**Method** `vanities()`: Get all vanity URLs

*Usage:*

```
Connect$vanities()
```

**Method** `server_settings_r()`: Get R installations.

*Usage:*

```
Connect$server_settings_r()
```

**Method** `server_settings()`: Get server settings.

*Usage:*

```
Connect$server_settings()
```

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
Connect$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**See Also**

Other R6 classes: [Bundle](#), [Content](#), [ContentTask](#), [Environment](#), [Task](#), [Vanity](#), [Variant](#), [VariantSchedule](#), [VariantTask](#)

---

promote	<i>Promote content from one Connect server to another</i>
---------	---

---

**Description**

Promote content from one Connect server to another

**Usage**

```
promote(from, to, to_key, from_key, name)
```

**Arguments**

from	The url for the server containing the content (the originating server)
to	The url for the server where the content will be deployed (the destination server)
to_key	An API key on the destination "to" server. If the destination content is going to be updated, the API key must belong to a user with collaborator access on the content that will be updated. If the destination content is to be created new, the API key must belong to a user with publisher privileges.
from_key	An API key on the originating "from" server. The API key must belong to a user with collaborator access to the content to be promoted.
name	The name of the content on the originating "from" server. If content with the same name is found on the destination server, the content will be updated. If no content on the destination server has a matching name, a new endpoint will be created.

**Value**

The URL for the content on the destination "to" server

---

set_image_path	<i>Set the Content Image</i>
----------------	------------------------------

---

**Description****[Deprecated]**

Please use [set\\_thumbnail](#) instead.

Set the Content Image using a variety of methods.

**Usage**

```
set_image_path(content, path)
```

```
set_image_url(content, url)
```

```
set_image_webshot(content, ...)
```

**Arguments**

content	A content object
path	The path to an image on disk
url	The url for an image
...	Additional arguments passed on to <code>webshot2::webshot()</code>

**Details**

NOTE: `set_image_webshot()` requires `webshot2::webshot()`, but currently skips and warns for any content that requires authentication until the `webshot2` package supports authentication.

**See Also**

Other content functions: `content_delete()`, `content_item()`, `content_title()`, `content_update()`, `create_random_name()`, `dashboard_url()`, `dashboard_url_chr()`, `delete_thumbnail()`, `delete_vanity_url()`, `deploy_repo()`, `get_bundles()`, `get_environment()`, `get_image()`, `get_job()`, `get_jobs()`, `get_thumbnail()`, `get_vanity_url()`, `git`, `has_thumbnail()`, `permissions`, `set_run_as()`, `set_thumbnail()`, `set_vanity_url()`, `swap_vanity_url()`, `terminate_jobs()`, `verify_content_name()`

---

set_run_as	<i>Set RunAs User</i>
------------	-----------------------

---

**Description**

Set the RunAs user for a piece of content. The `run_as_current_user` flag only does anything if:

**Usage**

```
set_run_as(content, run_as, run_as_current_user = FALSE)
```

**Arguments**

content	an R6 Content item
run_as	The RunAs user to use for this content
run_as_current_user	Whether to run this content as the viewer of the application

**Details**

- PAM is the authentication method
- `Applications.RunAsCurrentUser` is enabled on the server

Also worth noting that the `run_as` user must exist on the Posit Connect server (as a linux user) and have appropriate group memberships, or you will get a 400: Bad Request. Set to NULL to use the default RunAs user / unset any current configuration.

To "read" the current RunAs user, use the Content object or `get_content()` function.



**Value**

a Content object, updated with new details

**See Also**

connectapi::content\_update

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

set\_schedule

*Set a Schedule*

---

**Description**

**[Experimental]** Sets the schedule for a given Variant. Requires a Schedule object (as returned by [get\\_variant\\_schedule\(\)](#))

**Usage**

```
set_schedule(.schedule, ...)
```

```
set_schedule_minute(
  .schedule,
  n = 30,
  start_time = Sys.time(),
  activate = TRUE,
  email = FALSE,
  timezone = Sys.timezone()
)
```

```
set_schedule_hour(
  .schedule,
  n = 1,
  start_time = Sys.time(),
  activate = TRUE,
  email = FALSE,
  timezone = Sys.timezone()
)
```

```
set_schedule_day(
  .schedule,
  n = 1,
  start_time = Sys.time(),
```

```
        activate = TRUE,  
        email = FALSE,  
        timezone = Sys.timezone()  
    )  
  
    set_schedule_weekday(  
        .schedule,  
        start_time = Sys.time(),  
        activate = TRUE,  
        email = FALSE,  
        timezone = Sys.timezone()  
    )  
  
    set_schedule_week(  
        .schedule,  
        n = 1,  
        start_time = Sys.time(),  
        activate = TRUE,  
        email = FALSE,  
        timezone = Sys.timezone()  
    )  
  
    set_schedule_dayofweek(  
        .schedule,  
        days,  
        start_time = Sys.time(),  
        activate = TRUE,  
        email = FALSE,  
        timezone = Sys.timezone()  
    )  
  
    set_schedule_semimonth(  
        .schedule,  
        first = TRUE,  
        start_time = Sys.time(),  
        activate = TRUE,  
        email = FALSE,  
        timezone = Sys.timezone()  
    )  
  
    set_schedule_dayofmonth(  
        .schedule,  
        n = 1,  
        day = 1,  
        start_time = Sys.time(),  
        activate = TRUE,  
        email = FALSE,  
        timezone = Sys.timezone()  
    )
```

```

)

set_schedule_dayweekofmonth(
  .schedule,
  n = 1,
  day = 1,
  week = 1,
  start_time = Sys.time(),
  activate = TRUE,
  email = FALSE,
  timezone = Sys.timezone()
)

set_schedule_year(
  .schedule,
  n = 1,
  start_time = Sys.time(),
  activate = TRUE,
  email = FALSE,
  timezone = Sys.timezone()
)

set_schedule_remove(.schedule)

schedule_describe(.schedule)

```

### Arguments

<code>.schedule</code>	A schedule object. As returned by <code>get_variant_schedule()</code>
<code>...</code>	Scheduling parameters
<code>n</code>	The "number of" iterations
<code>start_time</code>	The start time of the schedule
<code>activate</code>	Whether to publish the output of this schedule
<code>email</code>	Whether to send emails on this schedule
<code>timezone</code>	The timezone to use for setting the schedule. Defaults to <code>Sys.timezone()</code>
<code>days</code>	The days of the week (0-6)
<code>first</code>	<a href="#">logical</a> Whether to execute on the 1st and 15th (TRUE) or 14th and last (FALSE)
<code>day</code>	The day of the week (0-6) or day of the month (0-31)
<code>week</code>	The week of the month (0-5)
<code>schedule</code>	A JSON blob (as a string) describing the schedule. See "More Details"

### Details

- `set_schedule()` is a raw interface to Posit Connect's `schedule` API
- `set_schedule_*` functions provide handy wrappers around `set_schedule()`

- `set_schedule_remove()` removes a schedule / un-schedules a variant

Beware, using `set_schedule()` currently uses the Posit Connect schedule API directly, and so can be a little clunky. Using the `set_schedule_*` is generally recommended.

### Value

An updated Schedule object

### See Also

Other schedule functions: [get\\_timezones\(\)](#), [get\\_variant\\_schedule\(\)](#)

---

set_thumbnail	<i>Set content item thumbnail</i>
---------------	-----------------------------------

---

### Description

Set the thumbnail for a content item.

### Usage

```
set_thumbnail(content, path)
```

### Arguments

content	A content item.
path	Either a path to a local file or a URL to an image available over HTTP/HTTPS. If path is an HTTP or HTTPS URL, the image will first be downloaded.

### Value

The content item (invisibly).

### See Also

Other thumbnail functions: [delete\\_thumbnail\(\)](#), [get\\_thumbnail\(\)](#), [has\\_thumbnail\(\)](#)

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

## Examples

```
## Not run:
client <- connect()
item <- content_item(client, "8f37d6e0-3395-4a2c-aa6a-d7f2fe1babd0")
set_thumbnail(item, "resources/image.png")

## End(Not run)
```

---

set_vanity_url	<i>Set the Vanity URL</i>
----------------	---------------------------

---

## Description

Sets the Vanity URL for a piece of content.

## Usage

```
set_vanity_url(content, url, force = FALSE)
```

## Arguments

content	A Content object
url	The path component of the URL
force	optional. Default FALSE. Whether to force-reassign a vanity URL that already exists

## Value

An updated Content object

## See Also

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

## Examples

```
## Not run:
bnd <- bundle_dir("~/my/directory")
connect() %>%
  deploy(bnd) %>%
  set_vanity_url("a/vanity/url")

## End(Not run)
```

---

swap_vanity_url	<i>Swap the Vanity URL</i>
-----------------	----------------------------

---

**Description**

Swaps the Vanity URLs between two pieces of content

**Usage**

```
swap_vanity_url(from_content, to_content)
```

**Arguments**

from\_content    A Content object

to\_content      A Content object

**See Also**

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#), [verify\\_content\\_name\(\)](#)

---

Task	<i>Task</i>
------	-------------

---

**Description**

Task

Task

**Details**

An R6 class that represents a Task

**Public fields**

connect The Connect instance.

task The task.

data The task data.

**Methods****Public methods:**

- [Task\\$new\(\)](#)
- [Task\\$get\\_connect\(\)](#)
- [Task\\$get\\_task\(\)](#)
- [Task\\$add\\_data\(\)](#)
- [Task\\$get\\_data\(\)](#)
- [Task\\$print\(\)](#)
- [Task\\$clone\(\)](#)

**Method** `new()`: Initialize this task.

*Usage:*

```
Task$new(connect, task)
```

*Arguments:*

`connect` The Connect instance.

`task` The task data.

**Method** `get_connect()`: Return the associated Connect instance.

*Usage:*

```
Task$get_connect()
```

**Method** `get_task()`: Return the underlying task.

*Usage:*

```
Task$get_task()
```

**Method** `add_data()`: Set the data.

*Usage:*

```
Task$add_data(data)
```

*Arguments:*

`data` The data.

**Method** `get_data()`: Get the data.

*Usage:*

```
Task$get_data()
```

**Method** `print()`: Print this object.

*Usage:*

```
Task$print(...)
```

*Arguments:*

`...` Unused.

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
Task$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.

**See Also**

Other R6 classes: [Bundle](#), [Content](#), [ContentTask](#), [Environment](#), [PositConnect](#), [Vanity](#), [Variant](#), [VariantSchedule](#), [VariantTask](#)

---

tbl_connect	<i>Connect Tibble</i>
-------------	-----------------------

---

**Description**

**[Experimental]** A lazy tibble that automatically pages through API requests when collected.

**Usage**

```
tbl_connect(
  src,
  from = c("users", "groups", "content", "usage_shiny", "usage_static", "audit_logs"),
  ...
)
```

**Arguments**

src	The source object
from	The type of tibble
...	Additional arguments that are not yet implemented

**Value**

A tbl\_connect object

---

terminate_jobs	<i>Terminate Jobs</i>
----------------	-----------------------

---

**Description**

Register a job kill order for one or more jobs associated with a content item. Requires Connect 2022.10.0 or newer.

**Usage**

```
terminate_jobs(content, keys = NULL)
```



**Arguments**

content	A Content object, as returned by <code>content_item()</code>
keys	Optional. One or more job keys, which can be obtained using <code>get_jobs(content)</code> . If no keys are provided, will terminate all active jobs for the provided content item.

**Value**

A data frame with the status of each termination request.

- `app_id`: The content item's identifier.
- `app_guid`: The content item's GUID.
- `job_key`: The job key.
- `job_id`: The job's identifier.
- `result`: The result string returned by Connect.
- `code`: An error code, NA if the request was successful.
- `error`: An error message, NA if the result was successful.

Note that `app_id`, `app_guid`, `job_id`, and `result` are NA if the request returns an error.

**See Also**

Other job functions: [get\\_job\(\)](#), [get\\_jobs\(\)](#)

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [verify\\_content\\_name\(\)](#)

---

users\_create\_remote     *Create a Remote User*

---

**Description**

The remote user creation workflow involves authentication providers like LDAP that involve a queryable identity store. This helper wraps the API calls necessary to retrieve information about and then create such a user. It functions with a "fuzzy match" prefix by default, but if you want to instantiate users directly, you should set `exact = TRUE`.

**Usage**

```
users_create_remote(connect, prefix, expect = 1, check = TRUE, exact = FALSE)
```

**Arguments**

connect	An R6 Connect object.
prefix	character. The prefix of the user name to search for.
expect	number. Optional. The number of responses to expect for this search.
check	boolean. Optional. Whether to check for local existence first.
exact	boolean. Optional. Whether to only create users whose username exactly matches the provided prefix.

**Details**

NOTE: there can be problems with usernames that are not unique. Please open an issue if you run into any problems.

**Value**

The results of creating the users.

---

user\_guid\_from\_username  
*User*

---

**Description**

Get user details

**Usage**

```
user_guid_from_username(client, username)
```

**Arguments**

client	A Connect R6 object
username	The user's username

**Details**

user\_guid\_from\_username() is a helper to retrieve a user GUID, given the user's username. It is useful in Shiny applications for using session\$user

---

Vanity

*Vanity*

---

### Description

Vanity

Vanity

### Details

An R6 class that represents a Vanity URL

### Super class

`connectapi::Content` -> Vanity

### Public fields

`vanity` The vanity.

### Methods

#### Public methods:

- `Vanity$new()`
- `Vanity$get_vanity()`
- `Vanity$print()`
- `Vanity$clone()`

**Method** `new()`: Initialize this vanity.

*Usage:*

```
Vanity$new(connect, content, vanity)
```

*Arguments:*

`connect` The Connect instance.

`content` The Content instance.

`vanity` The vanity data.

**Method** `get_vanity()`: Return the underlying vanity.

*Usage:*

```
Vanity$get_vanity()
```

**Method** `print()`: Print this object.

*Usage:*

```
Vanity$print(...)
```

*Arguments:*

... Unused.

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
Vanity$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

### See Also

Other R6 classes: [Bundle](#), [Content](#), [ContentTask](#), [Environment](#), [PositConnect](#), [Task](#), [Variant](#), [VariantSchedule](#), [VariantTask](#)

---

vanity\_is\_available    *Check to see if a vanity URL is currently in use*

---

### Description

**[Experimental]**

### Usage

```
vanity_is_available(connect, vanity)
```

### Arguments

connect	A Connect R6 object
vanity	string of the vanity URL to check

### Value

logical indicating if the vanity URL is available.

### See Also

Other audit functions: [audit\\_access\\_open\(\)](#), [audit\\_r\\_versions\(\)](#), [audit\\_runas\(\)](#)

---

Variant

*Variant*

---

## Description

Variant

Variant

## Details

An R6 class that represents a Variant

## Super class

`connectapi::Content` -> Variant

## Public fields

key The variant key.

variant The variant.

## Methods

### Public methods:

- `Variant$get_variant()`
- `Variant$get_variant_remote()`
- `Variant$new()`
- `Variant$send_mail()`
- `Variant$get_schedule()`
- `Variant$get_schedule_remote()`
- `Variant$get_subscribers()`
- `Variant$remove_subscriber()`
- `Variant$add_subscribers()`
- `Variant$render()`
- `Variant$renderings()`
- `Variant$update_variant()`
- `Variant$jobs()`
- `Variant$job()`
- `Variant$get_url()`
- `Variant$get_url_rev()`
- `Variant$get_dashboard_url()`
- `Variant$print()`
- `Variant$clone()`

**Method** `get_variant()`: Get the underlying variant data.

*Usage:*

```
Variant$get_variant()
```

**Method** `get_variant_remote()`: Get and store the (remote) variant data.

*Usage:*

```
Variant$get_variant_remote()
```

**Method** `new()`: Initialize this variant.

*Usage:*

```
Variant$new(connect, content, key)
```

*Arguments:*

`connect` The Connect instance.

`content` The Content instance.

`key` The variant key.

**Method** `send_mail()`: Mail previously rendered content.

*Usage:*

```
Variant$send_mail(to = c("me", "collaborators", "collaborators_viewers"))
```

*Arguments:*

`to` Targeting.

**Method** `get_schedule()`: Get the (remote) schedule data.

*Usage:*

```
Variant$get_schedule()
```

**Method** `get_schedule_remote()`: Get the (remote) schedule data.

*Usage:*

```
Variant$get_schedule_remote()
```

**Method** `get_subscribers()`: Get the subscribers.

*Usage:*

```
Variant$get_subscribers()
```

**Method** `remove_subscriber()`: Remove a named subscriber.

*Usage:*

```
Variant$remove_subscriber(guid)
```

*Arguments:*

`guid` User GUID.

**Method** `add_subscribers()`: Add named subscribers.

*Usage:*

```
Variant$add_subscribers(guids)
```

*Arguments:*

guids User GUIDs.

**Method** render(): Render this variant.

*Usage:*

Variant\$render()

**Method** renderings(): List the renderings of this variant.

*Usage:*

Variant\$renderings()

**Method** update\_variant(): Update this variant.

*Usage:*

Variant\$update\_variant(...)

*Arguments:*

... Target fields and values.

**Method** jobs(): Jobs for this variant.

*Usage:*

Variant\$jobs()

**Method** job(): Return single job for this variant.

*Usage:*

Variant\$job(key)

*Arguments:*

key The job key.

**Method** get\_url(): Return the URL for this variant.

*Usage:*

Variant\$get\_url()

**Method** get\_url\_rev(): Return the URL associated with one rendering for this variant.

*Usage:*

Variant\$get\_url\_rev(rev)

*Arguments:*

rev Rendering identifier.

**Method** get\_dashboard\_url(): Return the URL for this variant in the Posit Connect dashboard.

*Usage:*

Variant\$get\_dashboard\_url(pane = "access")

*Arguments:*

pane The pane in the dashboard to link to.

**Method** print(): Print this object.

*Usage:*

```
Variant$print(...)
```

*Arguments:*

... Unused.

**Method clone():** The objects of this class are cloneable with this method.

*Usage:*

```
Variant$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

### See Also

Other R6 classes: [Bundle](#), [Content](#), [ContentTask](#), [Environment](#), [PositConnect](#), [Task](#), [Vanity](#), [VariantSchedule](#), [VariantTask](#)

---

VariantSchedule	<i>VariantSchedule</i>
-----------------	------------------------

---

### Description

VariantSchedule

VariantSchedule

### Details

An R6 class that represents a Schedule

### Super classes

[connectapi::Content](#) -> [connectapi::Variant](#) -> VariantSchedule

### Public fields

schedule\_data The schedule data.

### Methods

#### Public methods:

- [VariantSchedule\\$new\(\)](#)
- [VariantSchedule\\$GET\(\)](#)
- [VariantSchedule\\$POST\(\)](#)
- [VariantSchedule\\$DELETE\(\)](#)
- [VariantSchedule\\$set\\_schedule\(\)](#)
- [VariantSchedule\\$is\\_empty\(\)](#)



- [VariantSchedule#print\(\)](#)
- [VariantSchedule\\$get\\_schedule\(\)](#)
- [VariantSchedule\\$get\\_schedule\\_remote\(\)](#)
- [VariantSchedule\\$describe\\_schedule\(\)](#)
- [VariantSchedule\\$clone\(\)](#)

**Method new():** Initialize this schedule.

*Usage:*

```
VariantSchedule$new(connect, content, key, schedule)
```

*Arguments:*

connect The Connect instance.

content The Content instance.

key The variant key.

schedule The schedule data.

**Method GET():** Perform an HTTP GET request of the named API path. Returns an object parsed from the HTTP response.

*Usage:*

```
VariantSchedule$GET(path)
```

*Arguments:*

path API path.

**Method POST():** Perform an HTTP POST request of the named API path. Returns an object parsed from the HTTP response.

*Usage:*

```
VariantSchedule$POST(path, body)
```

*Arguments:*

path API path.

body The HTTP payload.

**Method DELETE():** Perform an HTTP DELETE request of the named API path. Returns the HTTP response object.

*Usage:*

```
VariantSchedule$DELETE(path)
```

*Arguments:*

path API path.

**Method set\_schedule():** Set the schedule for this variant

*Usage:*

```
VariantSchedule$set_schedule(...)
```

*Arguments:*

... Schedule fields.

**Method** `is_empty()`: Return if this variant has a schedule.

*Usage:*

`VariantSchedule$is_empty()`

**Method** `print()`: Print this object.

*Usage:*

`VariantSchedule$print(...)`

*Arguments:*

... Unused.

**Method** `get_schedule()`: Get the schedule data.

*Usage:*

`VariantSchedule$get_schedule()`

**Method** `get_schedule_remote()`: Get and store the (remote) schedule data.

*Usage:*

`VariantSchedule$get_schedule_remote()`

**Method** `describe_schedule()`: Description of the associated schedule.

*Usage:*

`VariantSchedule$describe_schedule()`

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

`VariantSchedule$clone(deep = FALSE)`

*Arguments:*

`deep` Whether to make a deep clone.

### See Also

Other R6 classes: [Bundle](#), [Content](#), [ContentTask](#), [Environment](#), [PositConnect](#), [Task](#), [Vanity](#), [Variant](#), [VariantTask](#)

---

VariantTask

*VariantTask*

---

### Description

VariantTask

VariantTask

### Details

An R6 class that represents a Variant Task

**Super classes**

`connectapi::Content -> connectapi::Variant -> VariantTask`

**Public fields**

`task` The task.

`data` The variant data.

**Methods****Public methods:**

- `VariantTask$new()`
- `VariantTask$get_task()`
- `VariantTask$add_data()`
- `VariantTask$get_data()`
- `VariantTask$print()`
- `VariantTask$clone()`

**Method** `new()`: Initialize this variant task.

*Usage:*

`VariantTask$new(connect, content, key, task)`

*Arguments:*

`connect` The Connect instance.

`content` The Content instance.

`key` The variant key.

`task` The task data.

**Method** `get_task()`: Return the underlying task.

*Usage:*

`VariantTask$get_task()`

**Method** `add_data()`: Set the data.

*Usage:*

`VariantTask$add_data(data)`

*Arguments:*

`data` The data.

**Method** `get_data()`: Get the data.

*Usage:*

`VariantTask$get_data()`

**Method** `print()`: Print this object.

*Usage:*

`VariantTask$print(...)`

*Arguments:*

... Unused.

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
VariantTask$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**See Also**

Other R6 classes: [Bundle](#), [Content](#), [ContentTask](#), [Environment](#), [PositConnect](#), [Task](#), [Vanity](#), [Variant](#), [VariantSchedule](#)

---

verify_content_name	<i>Verify Content Name</i>
---------------------	----------------------------

---

**Description**

Ensures that a content name fits the specifications / requirements of Posit Connect. Throws an error if content name is invalid. Content names (as of the time of writing) must be between 3 and 64 alphanumeric characters, dashes, and underscores

**Usage**

```
verify_content_name(name)
```

**Arguments**

name                   The proposed content name

**Value**

The name (or an error if invalid)

**See Also**

connectapi::create\_random\_name

Other content functions: [content\\_delete\(\)](#), [content\\_item\(\)](#), [content\\_title\(\)](#), [content\\_update\(\)](#), [create\\_random\\_name\(\)](#), [dashboard\\_url\(\)](#), [dashboard\\_url\\_chr\(\)](#), [delete\\_thumbnail\(\)](#), [delete\\_vanity\\_url\(\)](#), [deploy\\_repo\(\)](#), [get\\_bundles\(\)](#), [get\\_environment\(\)](#), [get\\_image\(\)](#), [get\\_job\(\)](#), [get\\_jobs\(\)](#), [get\\_thumbnail\(\)](#), [get\\_vanity\\_url\(\)](#), [git](#), [has\\_thumbnail\(\)](#), [permissions](#), [set\\_image\\_path\(\)](#), [set\\_run\\_as\(\)](#), [set\\_thumbnail\(\)](#), [set\\_vanity\\_url\(\)](#), [swap\\_vanity\\_url\(\)](#), [terminate\\_jobs\(\)](#)

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