

Package: kwb.nextcloud (via r-universe)

September 1, 2024

Title R Package for Accessing Nextcloud Using WebDAV API

Version 0.3.0

Description R package to access file infos or download data from an Nextcloud instance using the WebDav API
(https://docs.nextcloud.com/server/17/developer_manual/client_apis/WebDAV/).

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URL <https://github.com/KWB-R/kwb.nextcloud>

BugReports <https://github.com/KWB-R/kwb.nextcloud/issues>

Imports httr (>= 1.4.1), kwb.file (>= 0.3.1), kwb.utils (>= 0.6.0),
xml2 (>= 1.3.2)

Suggests covr, knitr, rmarkdown, testthat

VignetteBuilder knitr

Remotes github::kwb-r/kwb.file, github::kwb-r/kwb.utils

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.2

Repository <https://kwb-r.r-universe.dev>

RemoteUrl <https://github.com/KWB-R/kwb.nextcloud>

RemoteRef HEAD

RemoteSha e6b961f6e2504c6b279ee737c703714e4c759dba

Contents

backup_cloud_folder	2
compare_file_info_files	3
create_folder	3
delete_file_or_folder	4
download_files	4

get_version_info	5
list_files	6
list_file_versions	7
move_file_or_folder	7
upload_file	8
Index	9

backup_cloud_folder *Backup a Cloud Folder to a Local Zip File*

Description

Zip cloud folder and download to local zip file. Default file name: <backup_dir>/cloud-backup_<base_name>_<yyyy-mm-

Usage

```

backup_cloud_folder(
    path,
    target_file = get_download_target_file(base_name, backup_dir),
    user = nextcloud_user(),
    auth = nextcloud_auth(),
    backup_dir = kwb.utils::createDirectory("~/../Downloads/nextcloud-backups"),
    base_name = basename(path)
)

```

Arguments

path	path to folder on the cloud
target_file	path to the target file. A default path is provided by get_download_target_file(base_name, backup_dir)
user	user name, by default taken from the environment variable "NEXTCLOUD_USER".
auth	authentication header as provided by kwb.nextcloud::nextcloud_auth
backup_dir	directory into which to download the zip-file
base_name	base name to be integrated into the name of the downloaded file

`compare_file_info_files`*Compare Two Files Containing File Information*

Description

Compare two CSV files as retrieved by `list_files(..., full_info = TRUE)`

Usage

```
compare_file_info_files(file_1, file_2, ...)
```

Arguments

<code>file_1</code>	path to first csv file
<code>file_2</code>	path to second csv file
<code>...</code>	further arguments passed to read.csv2

`create_folder`*Create a Folder on the Cloud*

Description

Create a Folder on the Cloud

Usage

```
create_folder(path, user = nextcloud_user(), auth = nextcloud_auth())
```

Arguments

<code>path</code>	path to the folder to be created
<code>user</code>	user name, by default taken from the environment variable "NEXTCLOUD_USER".
<code>auth</code>	authentication header as provided by <code>kwb.nextcloud::nextcloud_auth</code>

delete_file_or_folder *Delete a File or Folder on the Cloud*

Description

Delete a File or Folder on the Cloud

Usage

```
delete_file_or_folder(  
    path,  
    user = nextcloud_user(),  
    auth = nextcloud_auth(),  
    ...  
)
```

Arguments

path	path to the file or folder to be deleted
user	user name, by default taken from the environment variable "NEXTCLOUD_USER".
auth	authentication header as provided by <code>kwb.nextcloud::nextcloud_auth</code>
...	further arguments passed to <code>kwb.nextcloud::nextcloud_request</code>

download_files *Download Files from Cloud*

Description

Download Files from Cloud

Usage

```
download_files(  
    hrefs = NULL,  
    target_dir = create_download_dir("nextcloud_"),  
    paths = NULL,  
    user = nextcloud_user(),  
    auth = nextcloud_auth()  
)
```

Arguments

hrefs	href strings specifying the files to be downloaded. The href strings are returned by list_files . Alternatively, the paths to the files can be given in paths.
target_dir	path to local target directory
paths	Alternatively to giving the href strings, the paths to the files can be given in this argument.
user	name of nextcloud user. Default: result of calling <code>kwb.nextcloud::nextcloud_user</code>
auth	authentication as returned by <code>kwb.nextcloud::nextcloud_user</code>

get_version_info	<i>Get Version Information on Files of Given IDs</i>
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Description

Get Version Information on Files of Given IDs

Usage

```
get_version_info(
  file_ids,
  user = nextcloud_user(),
  ignore = "(status|quota|getcontent|resource)"
)
```

Arguments

file_ids	vector of integer representing file ids (values returned in column fileid) by list_files
user	nextcloud user
ignore	pattern matching columns to be excluded from the result. Set to NULL to see what columns are available.

Value

data frame with one row per version. There seems to be only an entry if the corresponding file as more than one version.

list_files	<i>List Files on the Nextcloud Server</i>
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Description

List Files on the Nextcloud Server

Usage

```
list_files(
  path = "",
  pattern = NULL,
  recursive = FALSE,
  full_info = FALSE,
  user = nextcloud_user(),
  auth = nextcloud_auth(),
  max_depth = NA,
  ...
)
```

Arguments

path	path to the nextcloud folder to be listed
pattern	an optional regular expression. Only file names which match the regular expression will be returned.
recursive	if TRUE the contents of subfolders are listed as well, up to the given max_depth.
full_info	if TRUE the full file information is returned as a data frame. If FALSE (the default) only the (relative) file paths are returned as a vector of character.
user	user name, by default taken from the environment variable "NEXTCLOUD_USER".
auth	authentication header as provided by <code>kwb.nextcloud::nextcloud_auth</code>
max_depth	maximum recursion depth if <code>recursive = TRUE</code> . By default <code>max_depth</code> is NA meaning that the function behaves "fully recursive".
...	further arguments passed to listToDepth .

Value

vector of character or data frame, each with attribute "root" being set to the value of path.

list_file_versions *List the Partner's File Versions (Except Current)*

Description

List the Partner's File Versions (Except Current)

Usage

```
list_file_versions(path, pattern = NULL, ...)
```

Arguments

path	relative path to folder of which file versions are to be listed
pattern	optional. If specified, only files with names matching the pattern are considered.
...	additional arguments passed to list_files , such as recursive, max_depth

move_file_or_folder *Move a File or Folder on the Cloud*

Description

Move a File or Folder on the Cloud

Usage

```
move_file_or_folder(
  path,
  path_target,
  overwrite = FALSE,
  user = nextcloud_user(),
  auth = nextcloud_auth(),
  dbg = TRUE,
  ...
)
```

Arguments

path	path to the file or folder to be moved
path_target	path to the target file or folder to be moved to
overwrite	whether to overwrite the file or folder in case that the file or folder already exists (default: FALSE)
user	user name, by default taken from the environment variable "NEXTCLOUD_USER".
auth	authentication header as provided by <code>kwb.nextcloud::nextcloud_auth</code>
dbg	print debug messages (default: TRUE)
...	further arguments passed to <code>kwb.nextcloud::nextcloud_request</code>

Value

return path_target of moved file/folder

upload_file	<i>Upload a Local File to the Cloud</i>
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Description

Upload a Local File to the Cloud

Usage

```
upload_file(  
    file,  
    target_path = "documents",  
    user = nextcloud_user(),  
    auth = nextcloud_auth()  
)
```

Arguments

file	path to local file
target_path	path to folder on the cloud into which to upload the file
user	user name, by default taken from the environment variable "NEXTCLOUD_USER".
auth	authentication header as provided by <code>kwb.nextcloud::nextcloud_auth</code>

Index

`backup_cloud_folder`, [2](#)

`compare_file_info_files`, [3](#)

`create_folder`, [3](#)

`delete_file_or_folder`, [4](#)

`download_files`, [4](#)

`get_version_info`, [5](#)

`list_file_versions`, [7](#)

`list_files`, [5](#), [6](#), [7](#)

`listToDepth`, [6](#)

`move_file_or_folder`, [7](#)

`read.csv2`, [3](#)

`upload_file`, [8](#)