

Package ‘rdav’

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Type Package

Title Simple 'WebDAV' Client

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Description A simple 'WebDAV' client that provides functions to fetch and send files or folders to servers using the 'WebDAV' protocol (see 'RFC' 4918 <<https://www.rfc-editor.org/rfc/rfc4918>>). Only a subset of the protocol is implemented (e.g. file locks are not yet supported).

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URL <https://github.com/gk-crop/rdav>

BugReports <https://github.com/gk-crop/rdav/issues>

Depends R (>= 4.1.0)

Imports utils, httr2, xml2

Suggests keyring, knitr, rmarkdown, testthat (>= 3.0.0)

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Contents

rdav	2
wd_connect	3
wd_copy	4
wd_delete	5
wd_dir	6
wd_download	7
wd_isdir	7
wd_mkdir	8
wd_move	9
wd_upload	9
Index	11

rdav

rdav: Interchange Files With 'WebDAV' Servers

Description

Provides functions to interchange files with WebDAV servers

Details

- download a file or a directory (recursively) from a WebDAV server
- upload a file or a directory (recursively) to a WebDAV server
- copy, move, delete files or directories on a WebDAV server
- list directories on the WebDAV server

Notice: when uploading or downloading files, they are overwritten without any warnings.

Author(s)

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See Also

Useful links:

- <https://github.com/gk-crop/rdav>
- Report bugs at <https://github.com/gk-crop/rdav/issues>

Examples

```
## Not run:
# establish a connection, you will be asked for a password
r <- wd_connect("https://example.com/remote.php/webdav/", "exampleuser")

# show files / directories in main directory
wd_dir(r)

# lists 'subdir', returns a dataframe
wd_dir(r, "subdir", as_df = TRUE)

# create directory 'mydirectory' on the server
wd_mkdir(r, "mydirectory")

# upload the local file testfile.R to the subdirectory 'mydirectory'
wd_upload(r, "testfile.R", "mydirectory/testfile.R")

# download content of 'mydirectory' from the server and
# store it in 'd:/data/fromserver' on your computer
wd_download(r, "mydirectory", "d:/data/fromserver")

## End(Not run)
```

wd_connect

Establishes a connection to a WebDAV server

Description

Creates and authenticates a request handle to the WebDAV server

Usage

```
wd_connect(url, username, password = NULL)
```

Arguments

url	url of the WebDAV directory
username	username
password	password - if not given, you will be asked for it

Details

Notice: it's not recommended to write the password as plain text. Either omit the parameter (then you will be asked to enter a password interactively) or use for example the system credential store via keyring package.

Value

a htr2 request to the WebDAV server location

Examples

```
## Not run:
# establish a connection, you will be asked for a password
r <- wd_connect("https://example.com/remote.php/webdav/", "exampleuser")

# establish a connection, use keyring package to retrieve the password
keyring::key_set("mydav", "exampleuser") # call only once

r <- wd_connect("https://example.com/remote.php/webdav/",
               "exampleuser",
               keyring::key_get("mydav", "exampleuser"))

## End(Not run)
```

wd_copy

Copies a file or directory on the WebDAV server

Description

Copies a file or directory on the WebDAV server

Usage

```
wd_copy(req, source, target, overwrite = TRUE)
```

Arguments

req	request handle obtained from wd_connect
source	path of the source on the server
target	path of the target on the server
overwrite	overwrites files when TRUE (default)

Value

TRUE on success, FALSE on failure (invisibly)

Examples

```
## Not run:  
  
wd_copy(r, "testfile.R", "testfile_old.R")  
  
## End(Not run)
```

wd_delete	<i>Deletes a file or directory (collection) on WebDAV server</i>
-----------	--

Description

Deletes a file or directory (collection) on WebDAV server

Usage

```
wd_delete(req, file)
```

Arguments

req	request handle obtained from wd_connect
file	path to file or directory to delete on the server

Value

TRUE on success, FALSE on failure (invisibly)

Examples

```
## Not run:  
  
wd_delete(r, "testfile.R")  
  
## End(Not run)
```

wd_dir *Lists the content of a WebDAV directory*

Description

Lists the content of a WebDAV directory

Usage

```
wd_dir(req, directory = "", full_names = FALSE, as_df = FALSE)
```

Arguments

req	request handle obtained from wd_connect
directory	directory path
full_names	if TRUE, the directory path is prepended to the file names to give a relative file path (relevant only if as_df is FALSE)
as_df	if TRUE outputs a data.frame with file information

Value

a vector of filenames or a dataframe (when as_df is TRUE) with detailed file information (filename, path, isdir, size, lastmodified)

Examples

```
## Not run:

# lists names of files and directories in the main directory
wd_dir(r)

# lists names of files and directories in the subdirectory "mydirectory"
wd_dir(r, "mydirectory")

# lists names of files and directories with the relative path
wd_dir(r, "mydirectory", full_names=TRUE)

# returns a data.frame with the columns filename, size and isdir (whether
# it's a directory or file
wd_dir(r, "mydirectory", as_df=TRUE)

## End(Not run)
```

wd_download	<i>Fetches a file or directory (recursively) from the WebDAV server</i>
-------------	---

Description

Directories are downloaded recursively. If the source is a file and the target a directory, then the file is downloaded to the target directory. If the target is omitted, then the file or directory name ([basename](#)) will be used.

Usage

```
wd_download(req, source, target = "")
```

Arguments

req	request handle obtained from wd_connect
source	path to source file or directory on server
target	path to local target file or directory, if omitted the file or directory name will be used, if source is a file and target a directory then the file will be put into the target directory

Value

vector of downloaded files (invisibly)

Examples

```
## Not run:  
  
wd_download(r, "weatherfiles", "d:/data/weather")  
wd_download(r, "test/xyz.txt", "d:/data/abc.txt")  
  
## End(Not run)
```

wd_isdir	<i>Checks if the resource on WebDAV is a directory</i>
----------	--

Description

Checks if the resource on WebDAV is a directory

Usage

```
wd_isdir(req, directory, silent = FALSE)
```

Arguments

req request handle obtained from [wd_connect](#)
 directory path to directory
 silent if FALSE a warning is given if the directory does not exists

Value

TRUE if it is a directory, FALSE else

Examples

```
## Not run:

wd_isdir(r, "testfile.R") # FALSE
wd_isdir(r, "mydirectory") # TRUE

## End(Not run)
```

 wd_mkdir

Creates a directory (collection) on WebDAV server

Description

When creating a subdirectory, all parent directories have to exist on the server.

Usage

```
wd_mkdir(req, directory)
```

Arguments

req request handle obtained from [wd_connect](#)
 directory directory path on server

Value

TRUE on success, FALSE on failure (invisibly)

Examples

```
## Not run:

# creates 'newdir' inside the subdirectory 'existing/directory'
wd_mkdir(r, "existing/directory/newdir")

## End(Not run)
```

wd_move	<i>Moves a file or directory on the server</i>
---------	--

Description

Moves a file or directory on the server

Usage

```
wd_move(req, source, target, overwrite = TRUE)
```

Arguments

req	request handle obtained from wd_connect
source	path of the source on the server
target	path of the target on the server
overwrite	overwrites files when TRUE (default)

Value

TRUE on success, FALSE on failure (invisibly)

Examples

```
## Not run:  
  
wd_move(r, "testfile.R", "testfile_old.R")  
  
## End(Not run)
```

wd_upload	<i>Uploads a file or directory to WebDAV</i>
-----------	--

Description

Directories are uploaded recursively. If the source is a file and the target a directory, then the file is uploaded into the directory. If the target is omitted, then the file or directory name ([basename](#)) will be used.

Usage

```
wd_upload(req, source, target = "")
```

Arguments

req	request handle obtained from wd_connect
source	path to local file or directory
target	path to remote file or directory, if omitted the file or directory name will be used, if source is a file and target a directory then the file will be put into the target directory

Value

vector of uploaded files (invisibly)

Examples

```
## Not run:  
  
wd_upload(r, "d:/data/weather", "weatherfiles")  
wd_upload(r, "d:/data/abc.txt", "test/xyz.txt")  
wd_upload(r, "d:/data/abc.txt", "test") # uploaded file will be test/abc.txt  
  
## End(Not run)
```

Index

basename, [7](#), [9](#)

rdav, [2](#)

rdav-package (rdav), [2](#)

wd_connect, [3](#), [4–10](#)

wd_copy, [4](#)

wd_delete, [5](#)

wd_dir, [6](#)

wd_download, [7](#)

wd_isdir, [7](#)

wd_mkdir, [8](#)

wd_move, [9](#)

wd_upload, [9](#)