Package 's3'

September 4, 2024

Title Download Files from 'AWS S3'

Version 1.1.0

Description Download files hosted on 'AWS S3' (Amazon Web Services Simple Storage Service; <<u>https://aws.amazon.com/s3/></u>) to a local directory based on their URI. Avoid downloading files that are already present locally. Allow for customization of where to store downloaded files.

License MIT + file LICENSE

Encoding UTF-8

RoxygenNote 7.3.2

Imports cli, prettyunits, fs, rlang, httr, glue, purrr (>= 0.3.4), dplyr,

Suggests aws.signature, testthat, digest, withr

URL https://github.com/brokamp-group/s3

BugReports https://github.com/brokamp-group/s3/issues

NeedsCompilation no

Author Cole Brokamp [aut, cre] (<https://orcid.org/0000-0002-0289-3151>), Erika Rasnick [aut], Robrecht Cannoodt [aut]

Maintainer Cole Brokamp <cole.brokamp@gmail.com>

Repository CRAN

Date/Publication 2024-09-04 12:50:06 UTC

Contents

s3_get	 2
s3_get_files	 3

4

Index

s3_get

Description

Files are downloaded to the R user data directory (i.e., tools::R_user_dir("s3", "data")) so they can be cached across all of an R user's sessions and projects. Specify an alternative download location by setting the R_USER_DATA_DIR environment variable (see ?tools::R_user_dir) or by using the data_dir argument.

Usage

```
s3_get(
  s3_uri,
  region = "us-east-2",
  quiet = FALSE,
  progress = FALSE,
  force = FALSE,
  public = FALSE,
  data_dir = tools::R_user_dir("s3", "data")
)
```

Arguments

s3_uri	URI for an S3 object
region	AWS region for bucket containing the file (defaults to "us-east-2", but only re- quired for private files)
quiet	suppress messages?
progress	show download progress? (currently only for public objects)
force	force download to overwrite existing S3 object
public	defaults to FALSE; if TRUE, ignore any environment variables specifying AWS credentials and attempt to download the file as publicly available
data_dir	root directory for downloaded files (defaults to tools::R_user_dir("s3", "data"))

Value

a character string that is the file path to the downloaded file (invisibly)

Examples

```
Sys.setenv("R_USER_DATA_DIR" = tempdir())
the_file <- s3_get(s3_uri = "s3://geomarker/testing_downloads/mtcars.rds")
s3_get("s3://geomarker/testing_downloads/mtcars.rds") |>
    readRDS()
unlink(the_file)
```

s3_get_files

Description

Progress messages for downloading several S3 objects at once cannot be silenced. Like s3_get, S3 objects that have already been downloaded will not be re downloaded

Usage

```
s3_get_files(
  s3_uri,
  region = "us-east-2",
  progress = FALSE,
  force = FALSE,
  confirm = TRUE,
  public = FALSE,
  data_dir = tools::R_user_dir("s3", "data")
)
```

Arguments

s3_uri	vector of S3 object URIs
region	AWS region for bucket containing the file (defaults to "us-east-2", but only re- quired for private files)
progress	show download progress for each individual file? (currently only for public objects)
force	force download to overwrite existing S3 objects
confirm	ask user to interactively confirm downloads? (only possible when session is interactive)
public	defaults to FALSE; if TRUE, ignore any environment variables specifying AWS credentials and attempt to download the file as publicly available
data_dir	root directory for downloaded files (defaults to tools::R_user_dir("s3", "data"))

Value

data.frame (or tibble) with s3_uris and corresponding file paths to downloaded files (invisibly)

Examples

```
Sys.setenv("R_USER_DATA_DIR" = tempdir())
the_files <- s3_get_files(c(
    "s3://geomarker/testing_downloads/mtcars.rds",
    "s3://geomarker/testing_downloads/mtcars.fst"
))
unlink(the_files$file_path)</pre>
```

Index

s3_get, 2
s3_get_files, 3