Package 's3'

July 23, 2025

Title Download Files from 'AWS S3'

Version 1.1.0

Description Download files hosted on 'AWS S3' (Amazon Web Services Simple Storage Service; <https://aws.amazon.com/s3/>) 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.

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

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

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Contents

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s3_get *download s3 file*

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 required 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)
```

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s3_get_files   *download several s3 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 required 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)
```

Index