

# Package: s3 (via r-universe)

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; <<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.

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**Roxygen** list(markdown = TRUE)

**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>

**Repository** <https://brokamp-group.r-universe.dev>

**RemoteUrl** <https://github.com/brokamp-group/s3>

**RemoteRef** HEAD

**RemoteSha** 7e9d78f6cac5efbeb223997e3383407ee80c67d6

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|--------|-------------------------|
| s3_get | <i>download s3 file</i> |
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### 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

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

### 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 | <i>download several s3 files</i> |
|--------------|----------------------------------|

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### 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

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

### 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)
```

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