Package 'bigrquerystorage'

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Type Package

Title An Interface to Google's 'BigQuery Storage' API

Version 1.2.2

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Description Easily talk to Google's 'BigQuery Storage' API from R
(<https://cloud.google.com/bigquery/docs/reference/storage/rpc>).

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Imports nanoarrow (>= 0.6.0), rlang, assertthat, Rcpp, lifecycle,
bit64, tibble

Suggests blob, bigrquery, testthat, hms, wk (>= 0.3.2), tzdb,
base64enc

LinkingTo Rcpp

Encoding UTF-8

URL <https://github.com/meztez/bigrquerystorage>

BugReports <https://github.com/meztez/bigrquerystorage/issues>

SystemRequirements grpc/protobuf headers and compilers. For example
libprotobuf-dev libgrpc++-dev protobuf-compiler-grpc (Debian)
or protobuf-devel grpc-devel grpc-plugins (Fedora/RHEL)

RoxygenNote 7.3.2

Biarch TRUE

NeedsCompilation yes

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Repository CRAN

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bigrquerystorage: An Interface to Google's 'BigQuery Storage' API

Description

Easily talk to Google's 'BigQuery Storage' API from R (https://cloud.google.com/bigquery/docs/reference/storage/rpc).

Author(s)

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- Google LLC [copyright holder, funder]

See Also

Useful links:

- https://github.com/meztez/bigrquerystorage
- Report bugs at https://github.com/meztez/bigrquerystorage/issues

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bqs_auth *Initialize bigrquerystorage client*

Description

Initialize bigrquerystorage client

Close bigrquerystorage client

Usage

```
bqs_auth()

bqs_deauth()
```

Details

Will attempt to reuse `bigrquery` credentials.

About Credentials

If your application runs inside a Google Cloud environment that has a default service account, your application can retrieve the service account credentials to call Google Cloud APIs. Such environments include Compute Engine, Google Kubernetes Engine, App Engine, Cloud Run, and Cloud Functions. We recommend using this strategy because it is more convenient and secure than manually passing credentials.

Additionally, we recommend you use Google Cloud Client Libraries for your application. Google Cloud Client Libraries use a library called Application Default Credentials (ADC) to automatically find your service account credentials. ADC looks for service account credentials in the following order:

1. If the environment variable GOOGLE_APPLICATION_CREDENTIALS is set, ADC uses the service account file that the variable points to.

2. If the environment variable GOOGLE_APPLICATION_CREDENTIALS isn't set, ADC uses the default service account that Compute Engine, Google Kubernetes Engine, App Engine, Cloud Run, and Cloud Functions provide.

3. If ADC can't use either of the above credentials, an error occurs.

Value

No return value, called for side effects.

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bqs_table_download   *Download table data*

Description

This retrieves rows block in a stream using a grpc protocol. It is most suitable for results of larger queries (>100 MB, say).

Usage

```
bqs_table_download(
  x,
  parent = getOption("bigquerystorage.project", ""),
  snapshot_time = NA,
  selected_fields = character(),
  row_restriction = "",
  sample_percentage,
  n_max = Inf,
  quiet = NA,
  as_tibble = lifecycle::deprecated(),
  bigint = c("integer", "integer64", "numeric", "character"),
  max_results = lifecycle::deprecated()
)
```

Arguments

`x`	Table reference {project}.{dataset}.{table_name}
`parent`	Used as parent for `CreateReadSession`. grpc method. Default is to use option `bigquerystorage.project` value.
`snapshot_time`	Table modifier `snapshot time` as `POSIXct`.
`selected_fields`	Table read option `selected_fields`. A character vector of field to select from table.
`row_restriction`	Table read option `row_restriction`. A character. SQL text filtering statement.
`sample_percentage`	Table read option `sample_percentage`. A numeric `0 <= sample_percentage <= 100`. Not compatible with `row_restriction`.
`n_max`	Maximum number of results to retrieve. Use `Inf` or `-1L` retrieve all rows.
`quiet`	Should information be printed to console.
`as_tibble`	Should data be returned as tibble. Default (FALSE) is to return as arrow Table from raw IPC stream.
`bigint`	The R type that BigQuery's 64-bit integer types should be mapped to. The default is `"integer"` which returns R's `integer` type but results in NA for values above/below +/- 2147483647. `"integer64"` returns a bit64::integer64, which allows the full range of 64 bit integers.
`max_results`	Deprecated

Details

More details about table modifiers and table options are available from the API Reference documentation. (See TableModifiers and TableReadOptions)

Value

This method returns a data.frame or optionally a tibble. If you need a `data.frame`, leave parameter as_tibble to FALSE and coerce the results with as.data.frame().

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