# Package 'influxdbclient'

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Title R Package for InfluxDB 2.x client
Version 0.1.0
<b>Description</b> R Package for InfluxDB 2.x client.
<pre>URL https://github.com/bonitoo-io/influxdb-client-r</pre>
BugReports https://github.com/bonitoo-io/influxdb-client-r/issues
<b>Depends</b> R (>= 3.3)
Encoding UTF-8
License MIT License + file LICENSE
LazyData true
<b>Imports</b> R6, httr, jsonlite, bit64, nanotime (>= 0.3.0), plyr
RoxygenNote 7.1.1
Suggests testthat, httptest
R topics documented:  InfluxDBClient
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InfluxDBClient InfluxDBClient
Description
Client for querying from and writing to InfluxDB 2.x.
Format
An R6Class object

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#### **Public fields**

```
url Database URL
token Authentication token
org Organization name
dialect Flux dialect
retryOptions Retry options
```

#### Methods

#### **Public methods:**

```
• InfluxDBClient$new()
```

- InfluxDBClient\$health()
- InfluxDBClient\$query()
- InfluxDBClient\$ready()
- InfluxDBClient\$write()
- InfluxDBClient\$clone()

**Method** new(): Creates instance of InfluxDBClient.

```
Usage:
InfluxDBClient$new(url, token, org, retryOptions = NULL)
Arguments:
url InfluxDB instance URL
token Authentication token
org Organization name
org Retry options. See RetryOptions for details. Set to TRUE for default retry options. Default
is NULL which disables retries.
```

**Method** health(): Gets health info of the InfluxDB instance.

```
Usage:
```

InfluxDBClient\$health()

Returns: Data as (list of) data.frame

Returns: Named list with name, message, status, version, commit elements or error

**Method** query(): Queries data in the InfluxDB instance.

**Method** ready(): Gets readiness status of the InfluxDB instance.

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```
Usage:
 InfluxDBClient$ready()
 Returns: Named list with status, started and up elements or error
Method write(): Writes data to the InfluxDB instance.
 Usage:
 InfluxDBClient$write(
   Χ,
   bucket,
   batchSize = 5000,
   precision = c("ns", "us", "ms", "s"),
   measurementCol = "_measurement",
    tagCols = NULL,
   fieldCols = c(`_field` = "_value"),
    timeCol = "_time",
   object = NULL,
 )
 Arguments:
 x Data as (list of) data.frame
 bucket Target bucket name
 batchSize Batch size. Positive number or FALSE to disable. Default is 5000.
 precision Time precision
 measurementCol Name of measurement column. Default is "_measurement".
 tagCols Names of tag (index) columns
 fieldCols Names of field columns. In case of unpivoted data previously retrieved from In-
     fluxDB, use default value ie. named list c("_field"="_value"). For all other cases, just
     use simple vector of column names (see Examples).
 timeCol Name of time column. The column values should be either of nanotime or POSIXct
     type. Default is "_time".
 object Output object name. For dry-run operation, specify the name of the object to receive
     the output. Default is NULL. For debugging purposes.
Method clone(): The objects of this class are cloneable with this method.
 Usage:
 InfluxDBClient$clone(deep = FALSE)
 Arguments:
 deep Whether to make a deep clone.
```

# **Examples**

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RetryOptions

**RetryOptions** 

## **Description**

Retry options may be specified as optional argument to write.

# Format

An R6Class object

#### **Public fields**

```
retryJitter Maximum number of random milliseconds included in delay. Default is 0. retryInterval First retry delay in seconds. Default is 5. maxDelay Maximum delay between retries in seconds. Default is 125. maxRetryTime Maximum time to spend retrying in seconds. Default is 180. maxAttempts Number of retry attempts. Default is 5. exponentialBase Base for exponential backoff strategy. Default is 2.
```

# Methods

#### **Public methods:**

- RetryOptions\$new()
- RetryOptions\$clone()

Method new(): Creates instance of RetryOptions.

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```
Usage:
RetryOptions$new(
    retryJitter = 0,
    retryInterval = 5,
    maxDelay = 125,
    maxRetryTime = 180,
    maxAttempts = 5,
    exponentialBase = 2,
    ...
)

Method clone(): The objects of this class are cloneable with this method.

Usage:
RetryOptions$clone(deep = FALSE)

Arguments:
deep Whether to make a deep clone.
```

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