Package 'promr'

October 14, 2022

Type Package	
Γitle Prometheus 'PromQL' Query Client for 'R'	
Version 0.1.3	
Description A native 'R' client library for querying the 'Prometheus' time-series database, using the 'PromQL' query language.	
URL https://github.com/domodwyer/promr	
BugReports https://github.com/domodwyer/promr/issues	
License Apache License (>= 2)	
Encoding UTF-8	
Suggests httptest, testthat (>= 3.0.0)	
Imports httr, tibble, urltools	
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Author Dom Dwyer [aut, cre]	
Maintainer Dom Dwyer <dom@itsallbroken.com></dom@itsallbroken.com>	
Repository CRAN	
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build_url	Construct a URL for the specified query.
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Description

Construct a URL for the specified query.

Usage

```
build_url(base, query, start, end, step, timeout = NA)
```

Arguments

base	A hostname and schema to base the generated path off of.
query	A PromQL query.
start	A RFC3339 timestamp string, numerical unix timestamp, or POSIXct object.
end	A RFC3339 timestamp string, numerical unix timestamp, or POSIXct object.

step A query resolution step width.

timeout An optional query timeout value, defaulting to server-side limit. Note this time-

out is capped to the server-side value.

Value

A URL to execute the query.

string suitable for use with Prometheus.	cast_timestamp	A helper function to map an input of various types to a timestamp string suitable for use with Prometheus.
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Description

A helper function to map an input of various types to a timestamp string suitable for use with Prometheus.

Usage

```
cast_timestamp(input)
```

Arguments

input A RFC3339 timestamp string, numerical unix timestamp, or POSIXct object.

Value

A Prometheus-compatible timestamp that can be coerced to a string.

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query_range

Evaluate an expression query over a range of time.

Description

Evaluate an expression query over a range of time.

Usage

```
query_range(
  query,
  start,
  end,
  host = "http://127.0.0.1:9090",
  step = "10s",
  timeout = NA
)
```

Arguments

query	A PromQL query.
start	A RFC3339 timestamp string, numerical unix timestamp, or POSIXct object.
end	A RFC3339 timestamp string, numerical unix timestamp, or POSIXct object.
host	An optional host - defaulting to http://127.0.0.1:9090
step	An optional query resolution step width, defaulting to 10s
timeout	An optional query timeout value, defaulting to server-side limit. Note this timeout is capped to the server-side value.

Value

A tibble of all series returned by the server, with nested measurements.

Examples

```
## Not run:
# Run a simple range query against the specified host.
query_range(
    "up",
    "2022-08-20T00:00:00Z",
    "2022-08-21T00:00:00Z",
    host = "http://127.0.0.1:9090"
)

# Run a server-side aggregation query, using the default local host.
query_range(
    "rate(http_requests_total[5m])",
    "2022-08-20T00:00:00Z",
```

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```
"2022-08-21T00:00:00Z"
)
# Specify the time range using POSIXct objects, and set the optional "step"
query_range(
  "rate(http_requests_total[5m])",
  strptime(
   "2022-08-20T20:10:30",
   format = "%Y-%m-%dT%H:%M:%S"
  ),
  strptime(
   "2022-08-21T20:10:30",
   format = "%Y-%m-%dT%H:%M:%S"
 ),
 step = "30s"
)
# Specify the time range using unix timestamps, and set an optional "timeout"
query_range(
  "rate(http_requests_total[5m])",
  1660989814,
  1661076214,
  timeout = "60s"
)
## End(Not run)
```

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