Package 'warp10r'

November 7, 2018

Title R Client for executing WarpScript on a Warp 10 instance

Version 0.3.0

Description This R client enables to make basic ingress and egress routine with Warp 10.

Depends R (>= 3.3.2)

License Apache 2.0

Encoding UTF-8

RoxygenNote 6.1.1

R topics documented:

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extractGTS   *Extract Geo Time Series*

Description

Extract all GTS from a JSON response and return them merged as a data.table. If too slow, consider using postWarpscript with outputType="data.table" instead.

Usage

```
extractGTS(response, withLabels = FALSE)
```

Arguments

response	response body of a post request (a character vector or a json)
withLabels	if TRUE, column names also include Labels. Default to FALSE

Value

data.table

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permalink   *Generate a Permalink*

Description

Generate a permalink to a quantum instance.

Usage

```
permalink(warpscript, plot = FALSE,
  endpoint = "http://localhost:8080/api/v0/exec",
  quantum = "http://localhost:8090")
```

Arguments

warpscript	code or file name ending with .mc2
plot	if TRUE, the generated link points to a plot. Default to FALSE
endpoint	egress endpoint. Default to "http://localhost:8080/api/v0/exec"
quantum	address of quantum instance. Default to "http://localhost:8090"

Value

url

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postWarpscript   *Post Warpscript Code*

Description

Post warpscript code to a Warp 10 instance and retrieve response as character vector, json, named
list or data.table. If outputType is "data.table", only the top of the stack is converted and it must be
a list of GTS. If this list is not a singleton, these GTS must have at most one value per timestamp.

Usage

```
postWarpscript(warpscript, outputType = "json",
  endpoint = "http://localhost:8080/api/v0/exec", withLabels = FALSE)
```

Arguments

warpscript	code or file name ending with .mc2
outputType	the type of the returned value. The supported types are "raw", "json", "pretty", "list" and "data.table". Default to "json". Output type "dataFrame" is deprecated in favor of "data.table".
endpoint	egress endpoint. Default to "http://localhost:8080/api/v0/exec"
withLabels	if TRUE and if outputType is "data.table", column names also include Labels. Default to FALSE

Value

character vector or json or named list or data.table

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pushWarp10	*Push data points*

Description

Push data points to an ingress instance.

Usage

```
pushWarp10(data, token, endpoint = "http://localhost:8080/api/v0/update")
```

Arguments

data	data points in GTS input format as a character vector or a filename ending with .data or .gz
token	write token
endpoint	ingress endpoint. Default to "http://localhost:8080/api/v0/update"

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toGtsInputFormat	*Convert a data frame*

Description

Convert a data frame into GTS input format.

Usage

```
toGtsInputFormat(dataFrame)
```

Arguments

dataFrame   first column must be named "timestamp". Column names corresponding to GTS
                   values must be in the <selector> form: "classname{label1=value1,label2=value2,...}"
                   (or "classname"). Optional geo columns must be named "<selector>.lat", "<se-
                   lector>.lon" or "<selector>.elev"

Value

data points in GTS input format as a character vector

Index