Package 'firestorm'

September 1, 2025

Title Reverse Proxy and Load Balancing for 'fiery'

Version 0.1.0

Description Provides plugins for setting up 'fiery' apps as a reverse proxy.
This allows you to use a 'fiery' server as a front for multiple services or
even work as a load-balancer.

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Encoding UTF-8

RoxygenNote 7.3.2

Imports cli, R6, rlang, websocket

URL <https://github.com/thomasp85/firestorm>

BugReports <https://github.com/thomasp85/firestorm/issues>

Suggests fiery (>= 1.3.0), httpuv, later, reqres (>= 1.0.0), testthat
(>= 3.0.0)

Config/testthat/edition 3

NeedsCompilation no

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Repository CRAN

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ReverseProxy   *Fiery plugin for a single reverse proxy*

Description

Fiery plugin for a single reverse proxy

Fiery plugin for a single reverse proxy

Details

This plugin establishes a reverse proxy between the server and a target origin server. It supports both HTTP and WebSocket connections and sets all the relevant headers for tracking the request along the proxy chain.

Initialization

A new 'ReverseProxy'-object is initialized using the `new()` method on the generator:

Usage

```
route <- ReverseProxy$new(target, root = "/", continue = FALSE, trust = FALSE)
```

Active bindings

`name` The name used by default for the plugin

Methods

Public methods:

- `ReverseProxy$new()`
- `ReverseProxy$on_attach()`
- `ReverseProxy$clone()`

Method `new()`: Create a new reverse proxy

Usage:

```
ReverseProxy$new(target, root = "/", except = NULL, trust = FALSE)
```

Arguments:

`target` The URL to the origin server being proxied

`root` The root path the reverse proxy should respond to. Only requests to subsets of the root path will be proxied, and the root will be stripped from the URL path before being forwarded

`except` Subpaths to `root` that should be excempt from forwarding to the target.

`trust` Are requests coming from a trusted source

Method `on_attach()`: Hook for attaching the plugin to a fiery app. Should not be called directly

Usage:

```
ReverseProxy$on_attach(app, ...)
```

Arguments:

app The fiery app to attach to

... Ignored

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

Usage:

```
ReverseProxy$clone(deep = FALSE)
```

Arguments:

deep Whether to make a deep clone.

Examples

```
# Create a reverse proxy forwarding requests to http://example.com
rev_prox <- ReverseProxy$new(
  "http://example.com"
)

# Use root to only proxy requests to a specific subpath
rev_prox <- ReverseProxy$new(
  "http://example.com",
  root = "forward"
)

# Use except to exempt certain subpaths from proxying
rev_prox <- ReverseProxy$new(
  "http://example.com",
  except = c("no_proxy", "dont/proxy")
)

## Attach it to a fiery app
if (requireNamespace("fiery", quietly = TRUE)) {
  app <- fiery::Fire$new()
  app$attach(rev_prox)
}
```

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