

HTTP Middlewares Overview

HTTP Middlewares in Traefik let you modify requests and responses on the fly. You can configure them in multiple ways (Docker labels, TOML, YAML, etc.).

Configuration Example in a docker-compose.yaml

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```
# As a Docker Label
whoami:
  # A container that exposes an API to show its IP address
  image: traefik/whoami
  labels:
    # Create a middleware named `foo-add-prefix`
    - "traefik.http.middlewares.foo-add-prefix.addprefix.prefix=/foo"
    # Apply the middleware named `foo-add-prefix` to the router named `router1`
    - "traefik.http.routers.router1.middlewares=foo-add-prefix@docker"
```

Configuration Example in a dynamic.toml

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```
[http.routers]
[http.routers.router1]
  service = "service1"
  middlewares = ["foo-add-prefix"]
  rule = "Host(`example.com`)"
```

```
[http.middlewares]
[http.middlewares.foo-add-prefix.addPrefix]
  prefix = "/foo"

[http.services]
[http.services.service1]
[http.services.service1.loadBalancer]

[[http.services.service1.loadBalancer.servers]]
  url = "http://127.0.0.1:80"
```

Configuration Example in a dynamic.yml

Configuration Example in a dynamic.yml

```
http:
  routers:
    router1:
      service: service1
      middlewares:
        - "foo-add-prefix"
      rule: "Host(`example.com`)"

  middlewares:
    foo-add-prefix:
      addPrefix:
        prefix: "/foo"

  services:
    service1:
      loadBalancer:
        servers:
          - url: "http://127.0.0.1:80"
```

Available HTTP Middlewares

Middleware	Purpose	Area
<u>AddPrefix</u>	Adds a Path Prefix	Path Modifier
<u>BasicAuth</u>	Adds Basic Authentication	Security, Authentication
<u>Buffering</u>	Buffers the request/response	Request Lifecycle
<u>Chain</u>	Combines multiple pieces of middleware	Misc
<u>CircuitBreaker</u>	Prevents calling unhealthy services	Request Lifecycle
<u>Compress</u>	Compresses the response	Content Modifier
<u>ContentType</u>	Handles Content-Type auto-detection	Misc
<u>DigestAuth</u>	Adds Digest Authentication	Security, Authentication
<u>Errors</u>	Defines custom error pages	Request Lifecycle
<u>ForwardAuth</u>	Delegates Authentication	Security, Authentication
<u>Headers</u>	Adds / Updates headers	Security
<u>IPAllowList</u>	Limits the allowed client IPs	Security, Request lifecycle
<u>InFlightReq</u>	Limits the number of simultaneous connections	Security, Request lifecycle
<u>PassTLSClientCert</u>	Adds Client Certificates in a Header	Security
<u>RateLimit</u>	Limits the call frequency	Security, Request lifecycle
<u>RedirectScheme</u>	Redirects based on scheme	Request lifecycle
<u>RedirectRegex</u>	Redirects based on regex	Request lifecycle
<u>ReplacePath</u>	Changes the path of the request	Path Modifier
<u>ReplacePathRegex</u>	Changes the path of the request	Path Modifier
<u>Retry</u>	Automatically retries in case of error	Request lifecycle

Middleware	Purpose	Area
StripPrefix	Changes the path of the request	Path Modifier
StripPrefixRegex	Changes the path of the request	Path Modifier

For even more options, check out the [community-contributed plugins](#) in the plugin catalog.

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