

# 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

### Configuration Example in a dynamic.toml

```
[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          |
|----------------------------------|---------------------------------|---------------|
| <a href="#">StripPrefix</a>      | Changes the path of the request | Path Modifier |
| <a href="#">StripPrefixRegex</a> | 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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Revision #7  
Created 12 September 2024 14:10:11 by aeoneros  
Updated 4 February 2025 14:32:35 by aeoneros