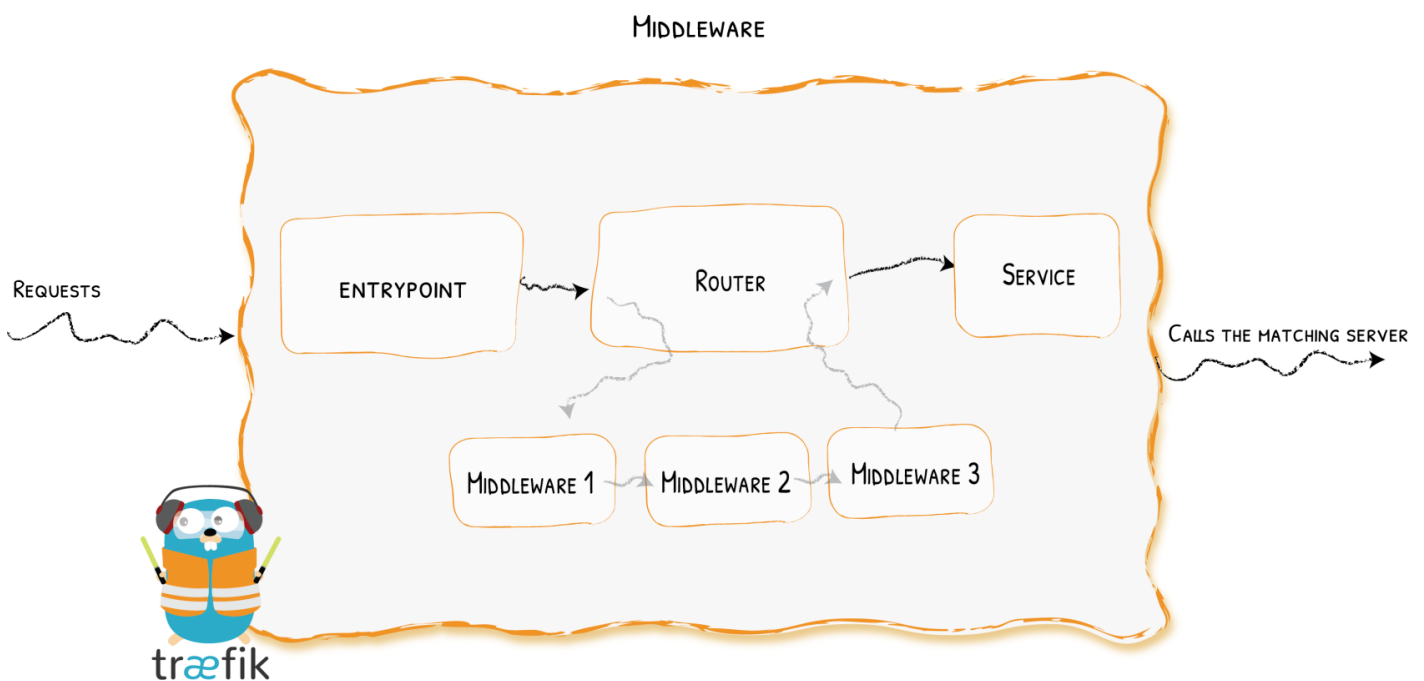# Overview Middlewares

Attached to the routers, pieces of middleware are a means of tweaking the requests before they are sent to your service (or before the answer from the services are sent to the clients).

There are several available middleware in Traefik, some can modify the request, the headers, some are in charge of redirections, some add authentication, and so on.

Middlewares that use the same protocol can be combined into chains to fit every scenario.

> Middlewares can be attached to Routers (specific Services) or also added to an Entrypoint. So every Service using this Entrypoint flows through that Middleware.

Available Middlewares

Traefik provides several official middlewares by default. Refer to the documentation for the full list:

- HTTP Middlewares
- TCP Middlewares

Additionally, you can explore the Plugin Catalog, where community-driven middlewares are published.

Configuration Example directly in a `docker-compose.yaml`

```yaml
# 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 an external `dynamic.yml`

```yaml
http:
  routers:
    router1:
      service: myService
```

```yaml
        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"
```

Configuration Example in a `dynamic.toml`

```toml
[http.routers]
  [http.routers.router1]
    service = "myService"
    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"
```

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