

# Dynamic Configuration File/s



The dynamic configuration contains everything that defines how the

requests are handled by your system. This configuration can change and is seamlessly hot-reloaded, without any request interruption or connection loss.

## How Traefik Loads the Dynamic Config File/s

Refer to the [Static Configuration Post](#) for context. Traefik loads the `static.yaml`, and within that file, the dynamic file(s) are referenced for loading.

To load your dynamic configurations, you can set them up in two ways. Either write all your dynamic content into a single file or split it into multiple files for better organization.

### Example: Loading Configuration in One File

Needs to be set up in `static.yaml`. The `/dynamic.yaml` is the path inside the container and must be mounted using Docker Compose:

```
volumes:
  # Dynamic Configuration File
  - '/path/on/your/linuxhost/dynamic:/dynamic.yaml'
```

Example `static.yaml`:

```
providers:
  docker:
    exposedByDefault: false
    network: "management_net"
  swarm:
    network: "management_net"
file:
```

```
watch: true  
file: "/dynamic.yaml"
```

## Example: Loading Multiple Configuration Files

This setup loads every file in the specified directory with the YAML format. The `/dynamic/` path is the path inside the container and must be mounted using Docker Compose:

```
volumes:  
  # Dynamic Configuration Folder  
  - '/path/on/your/linuxhost/dynamic:/dynamic/'
```

Example `static.yaml`:

```
providers:  
  docker:  
    exposedByDefault: false  
    network: "management_net"  
  swarm:  
    network: "management_net"  
file:  
  watch: true  
  directory: "/dynamic/"
```

## Splitting Dynamic Files

Create multiple paths in your Traefik data folder. Assuming your base Traefik data folder is `/mnt/gluster mount/data/traefik_data`, you can structure it like this:

```
mkdir -p /mnt/gluster mount/data/traefik_data/dynamic  
touch /mnt/gluster mount/data/traefik_data/dynamic/http.middlewares.yaml  
touch /mnt/gluster mount/data/traefik_data/dynamic/http.routers.yaml  
touch /mnt/gluster mount/data/traefik_data/dynamic/http.services.yaml  
touch /mnt/gluster mount/data/traefik_data/dynamic/tls.options.yaml
```

Then you can write configurations into these files. Below are examples for each:

Example: `http.middlewares.yaml`

```
http:
  middlewares:
    my-secure-headers:
      headers:
        sslRedirect: true
        stsSeconds: 31536000
        stsIncludeSubdomains: true
        stsPreload: true
```

## Example: `http.routers.yaml`

```
http:
  routers:
    my-router:
      rule: "Host(`example.com`)"
      entryPoints:
        - websecure
      service: my-service
      tls: {}
```

## Example: `http.services.yaml`

```
http:
  services:
    my-service:
      loadBalancer:
        servers:
          - url: "http://192.168.1.10:8080"
```

## Example: `tls.options.yaml`

```
tls:
  options:
    default:
      minVersion: VersionTLS12
      cipherSuites:
        - TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256
        - TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384
```

