

Traefik

Traefik used for ingress and cert management

traefik:

image: traefik:v3

restart: always

container_name: traefik

ports:

- "80:80" # <== http

#- "8080:8080" # <== :8080 is where the dashboard runs on

- "443:443" # <== https

command:

These are the CLI commands that will configure Traefik and tell it how to work!

API Settings - <https://docs.traefik.io/operations/api/>, endpoints -

<https://docs.traefik.io/operations/api/#endpoints> ##

- --api=true # <== Enabling insecure api, NOT RECOMMENDED FOR PRODUCTION

- --api.dashboard=true # <== Enabling the dashboard to view services, middlewares, routers, etc...

- --api.debug=true # <== Enabling additional endpoints for debugging and profiling

- --servertransport.insecureskipverify=true

- --log.level=INFO

#- --log.filepath=/var/logs/traefik.log

- --accesslog=true

#- --accesslog.filepath=/var/logs/traefik-access.log

Log Settings (options: ERROR, DEBUG, PANIC, FATAL, WARN, INFO) -

<https://docs.traefik.io/observability/logs/> ##

#- --log.level=DEBUG # <== Setting the level of the logs from traefik

Provider Settings - <https://docs.traefik.io/providers/docker/#provider-configuration>

- --providers.docker=true # <== Enabling docker as the provider for traefik

- --providers.docker.exposedbydefault=false # <== Don't expose every container to traefik, only expose enabled ones

- --providers.file.filename=/dynamic.yml # <== Referring to a dynamic configuration file

- --providers.file.directory=/rules

- --providers.docker.network=web # <== Operate on the docker network named web

Entrypoints Settings - <https://docs.traefik.io/routing/entrypoints/#configuration>

- --entrypoints.web.address=:80 # <== Defining an entrypoint for port :80 named web

- --entrypoints.web-secured.address=:443 # <== Defining an entrypoint for https on port :443 named web-secured

- --entrypoints.web.http.redirects.entrypoint.to=web-secured

- --entryPoints.web.http.redirects.entrypoint.scheme=https

- --entrypoints.web-secured.asDefault=true

- --entrypoints.web-secured.http.tls.certResolver=mytlschallenge

Certificate Settings (Let's Encrypt) - <https://docs.traefik.io/https/acme/#configuration-examples>

- --certificatesResolvers.mytlschallenge.acme.httpChallenge.entryPoint=web

- --certificatesresolvers.mytlschallenge.acme.tlschallenge=true # <== Enable TLS-ALPN-01 to generate and renew ACME certs

- --certificatesresolvers.mytlschallenge.acme.email=kevin@kevinsloan.net # <== Setting email for certs

- --certificatesresolvers.mytlschallenge.acme.storage=/letsencrypt/acme.json # <== Defining acme file to store cert information

volumes:

- ./letsencrypt:/letsencrypt # <== Volume for certs (TLS)

- /var/run/docker.sock:/var/run/docker.sock # <== Volume for docker admin

- ./dynamic.yml:/dynamic.yml # <== Volume for dynamic conf file, **ref: line 27

- ./rules:/rules

- /mnt/user/Share/Docker/Traefik/logs:/var/logs

networks:

Placing traefik on the network named web, to access containers on this network

web:

ipv4_address: 172.18.0.2

labels:

Labels define the behavior and rules of the traefik proxy for this container

- traefik.enable=true # <== Enable traefik on itself to view dashboard and assign subdomain to view it

- traefik.http.routers.traefik-web.rule=Host(`traefik.kevinsloan.net`) # <== Setting the domain for the

dashboard

- traefik.http.routers.traefik-web.entrypoints=web

- traefik.http.routers.traefik-secured.rule=Host(`traefik.kevinsloan.net`)

- traefik.http.routers.traefik-secured.entrypoints=web-secured

- traefik.http.routers.traefik-secured.service=api@internal # <== Enabling the api to be a service to access

rules directory to setup custom endpoints

aoo-hassio.toml

```
[http.routers]
[http.routers.hassio-rtr]
  entryPoints = ["web-secured"]
  rule = "Host(`homeassist.kevinsloan.net`)"
  service = "hassio-svc"
[http.routers.hassio-rtr.tls]
  certresolver = "mytlschallenge"

[http.services]
[http.services.hassio-svc]
[http.services.hassio-svc.loadBalancer]
  passHostHeader = true
[[http.services.hassio-svc.loadBalancer.servers]]
  url = "http://192.168.123.108:8123" # or whatever your external host's IP:port is
```

app-kuma.toml

```
[http.routers]
[http.routers.kuma-rtr]
  entryPoints = ["web-secured"]
  rule = "Host(`kuma-uptime.kevinsloan.net`)"
  service = "kuma-svc"
[http.routers.kuma-rtr.tls]
  certresolver = "mytlschallenge"

[http.services]
[http.services.kuma-svc]
[http.services.kuma-svc.loadBalancer]
[[http.services.kuma-svc.loadBalancer.servers]]
  url = "http://192.168.123.101:80" # or whatever your external host's IP:port is
```

app-pihole.toml

```
[http.routers]
[http.routers.pihole-rtr]
```

```
entryPoints = ["web-secured"]  
rule = "Host(`pihole.kevinsloan.net`)"  
service = "pihole-svc"  
[http.routers.pihole-rtr.tls]  
certresolver = "mytlschallenge"
```

```
[http.services]  
[http.services.pihole-svc]  
[http.services.pihole-svc.loadBalancer]  
[[http.services.pihole-svc.loadBalancer.servers]]  
url = "http://192.168.123.107:80" # or whatever your external host's IP:port is
```

Revision #3

Created 29 May 2020 01:46:07 by sloan

Updated 22 February 2025 23:49:51 by sloan