

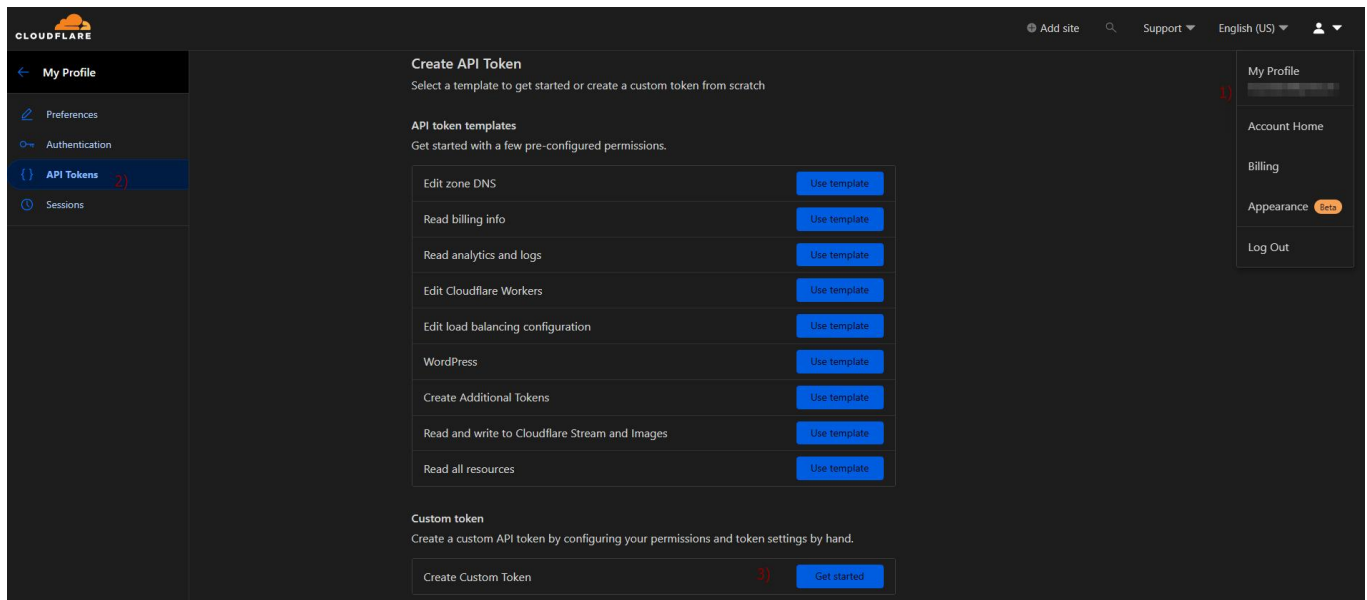
Traefik (docker-compose)

Cloudflare config

Create a free cloudflare account

Register a domain

Generate a cloudflare token



Permissions
Select edit or read permissions to apply to your accounts or websites for this token.

Zone	Zone	Read	×
Zone	DNS	Edit	×

[+ Add more](#)

Zone Resources
Select zones to include or exclude.

Include	Specific zone	
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[+ Add more](#)

Client IP Address Filtering
Select IP addresses or ranges of IP addresses to filter. This filter limits the client IP addresses that can use the API token with Cloudflare. By default, this token will apply to all addresses.

Operator	Value
Select item...	e.g. 192.168.1.88

[+ Add more](#)

TTL
Define how long this token will stay active.

Start Date	→	End Date
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[Cancel](#) [Continue to summary](#)

docker-compose.yml config

Create a docker-compose directory

```
mkdir /docker-compose/traefik
```

Create the docker-compose.yml file below using the editor of your choice

```
nvim docker-compose.yml
```

Past the file contents

```
version: '3'

services:
  traefik:
    image: traefik:latest
    container_name: traefik
```

```

restart: unless-stopped
security_opt:
  - no-new-privileges:true
networks:
  proxy:
ports:
  - 80:80
  - 443:443
environment:
  - CF_API_EMAIL=your@email.com
  - CF_DNS_API_TOKEN=your-api-key
  # - CF_API_KEY=YOU_API_KEY
  # be sure to use the correct one depending on if you are using a
token or key
volumes:
  - /etc/localtime:/etc/localtime:ro
  - /var/run/docker.sock:/var/run/docker.sock:ro
  - /home/ubuntu/docker/traefik/traefik.yml:/traefik.yml:ro
  - /home/ubuntu/docker/traefik/acme.json:/acme.json
  - /home/ubuntu/docker/traefik/config.yml:/config.yml:ro
  - /home/ubuntu/docker/traefik/logs:/var/log/traefik
labels:
  - "traefik.enable=true"
  - "traefik.http.routers.traefik.entrypoints=http"
  - "traefik.http.routers.traefik.rule=Host(`traefik-
dashboard.yourdomain.co.uk`)"
  - "traefik.http.middlewares.traefik-
auth.basicauth.users=YOUR_USERNAME_PASSWORD"
  - "traefik.http.middlewares.traefik-https-
redirect.redirectscheme.scheme=https"
  - "traefik.http.middlewares.sslheader.headers.customrequestheaders.X-
Forwarded-Proto=https"
  - "traefik.http.routers.traefik.middlewares=traefik-https-redirect"
  - "traefik.http.routers.traefik-secure.entrypoints=https"
  - "traefik.http.routers.traefik-secure.rule=Host(`traefik-
dashboard.yourdomain.co.uk`)"
  - "traefik.http.routers.traefik-secure.middlewares=traefik-auth"
  - "traefik.http.routers.traefik-secure.tls=true"
  - "traefik.http.routers.traefik-secure.tls.certresolver=cloudflare"
  - "traefik.http.routers.traefik-

```

```
secure.tls.domains[0].main=yourdomain.co.uk"
    - "traefik.http.routers.traefik-secure.tls.domains[0].sans=*.yourdomain.co.uk"
    - "traefik.http.routers.traefik-secure.service=api@internal"

networks:
  proxy:
```

Contents to modify (docker-compose.yml)

Change you your cloudflare email

```
- CF_API_EMAIL=your@email.com
```

Change to your cloudflare generated token

```
- CF_DNS_API_TOKEN=your-api-key
```

Change to your directory, see below

```
- /home/ubuntu/docker/traefik/traefik.yml:/traefik.yml:ro
- /home/ubuntu/docker/traefik/acme.json:/acme.json
- /home/ubuntu/docker/traefik/config.yml:/config.yml:ro
- /home/ubuntu/docker/traefik/logs:/var/log/traefik
```

Your domain for your dashboard

```
- "traefik.http.routers.traefik.rule=Host(`traefik-dashboard.yourdomain.co.uk`)"
```

Your generated password, see below

```
- "traefik.http.middlewares.traefik-auth.basicauth.users=YOUR_USERNAME_PASSWORD"
```

Your domain

```
- "traefik.http.routers.traefik-secure.rule=Host(`traefik-dashboard.yourdomain.co.uk`)"
- "traefik.http.routers.traefik-secure.tls.domains[0].main=yourdomain.co.uk"
- "traefik.http.routers.traefik-secure.tls.domains[0].sans=*.yourdomain.co.uk"
```

Traefik.yml config

Navigate to your directory where you want to keep you traefik mount points

You will have to modify the "volumes" section in the docker compose file to reflect this location

```
mkdir /docker/traefik
```

Use command below to create the traefik mount points

```
touch acme.json traefik.yml config.yml
```

Change permissions on the acme.json file to 600

```
sudo chmod 600 acme.json
```

Open traefik.yml file using the editor of your choice**

```
nvim traefik.yml
```

Paste the file contents

```
api:
  dashboard: true
  debug: true
entryPoints:
  http:
    address: ":80"
  http:
    redirections:
      entryPoint:
        to: https
      scheme: https
  https:
    address: ":443"
serversTransport:
  insecureSkipVerify: true
providers:
  docker:
    endpoint: "unix:///var/run/docker.sock"
    exposedByDefault: false
```

```

file:
  filename: /config.yml
certificatesResolvers:
  cloudflare:
    acme:
      email: your@email.com #add your email
      storage: acme.json
      dnsChallenge:
        provider: cloudflare
        #disablePropagationCheck: true # uncomment this if you have issues
pulling certificates through cloudflare, By setting this flag to true disables the
need to wait for the propagation of the TXT record to all authoritative name
servers.

    resolvers:
      - "1.1.1.1:53"
      - "1.0.0.1:53"

```

Contents to modify (traefik.yml)

Your cloudflare email

```
email: your@email.com #add your email
```

Create a network for traefik

```
sudo docker network create proxy
```

Generate dashboard password

```

sudo apt update
sudo apt install apache2-utils
echo $(htpasswd -nb "USERNAME" "PASSWORD" | sed -e s/\\$/\\$\\$/g)

```

Copy the generated code and paste in the docker-compose file in this location

```
"traefik.http.middlewares.traefik-auth.basicauth.users=YOUR_USERNAME:PASSWORD"
```

Spin up the docker-compose file

```
cd /docker-compose/traefik  
sudo docker compose up -d
```