

Traefik

- [Traefik](#)
 - [Prerequisites](#)
 - [High-Availability with Consul](#)
 - [Create a Basic Auth Secret for the Consul UI](#)
 - [Install / Upgrade / Delete](#)
 - [Install](#)
 - [Upgrade](#)
 - [Delete \(DANGER\)](#)
 - [Install](#)
 - [Upgrade](#)
 - [Delete \(DANGER\)](#)

-
- `helm` [chart](#)
 - [Kubernetes + Traefik Ingress/Service Annotations](#)
 - Two services are created by this chart. One, `fluentd-ext` is the publicly exposed LB (`80/tcp` , `443/tcp`). The other, `fluentd-int` is for the Wazuh server's `filebeat` output to talk to `fluentd` .

Prerequisites

High-Availability with Consul

- Because of issues with storing TLS certs with `ACME` , their rate-limiting rules on non-staging certificates, and the fact that Traefik would need 1 read-only volume per pod would, we run `consul` to be a shared k/v store for these certificates and config, enabling **HA** for **Traefik**.
- This repo includes a forked version of this [helm incubator project](#), with `clusterIP` commented out of the `service` object, so that **Traefik** can reach the cluster over the network.

Create a Basic Auth Secret for the Consul UI

```
for i in consul-basic-auth; do htpasswd -c ./k8s/${i}.txt chipper && kubectl -n client
```



Install / Upgrade / Delete

Install

```
helm --debug install \  
  --name consul --namespace client \  
  --values './k8s/helm/consul/values.yaml' \  
  stable/consul --version 3.5.2
```

Upgrade

```
helm --debug upgrade \  
  --namespace client consul \  
  --values './k8s/helm/consul/values.yaml' \  
  stable/consul --version 3.5.2
```

Delete (DANGER)

```
helm del --purge consul
```

Install

```
env CF_API_EMAIL='PUT_EMAIL_HERE' env CF_API_KEY='PUT_KEY_HERE' \  
helm --debug install \  
  --namespace client --name traefik \  
  --values './k8s/helm/traefik/values.yaml' \  
  --set=acme.dnsProvider.name='cloudflare' \  
  --set=acme.dnsProvider.cloudflare.CF_API_EMAIL='$CF_API_EMAIL' \  
  --set=acme.dnsProvider.cloudflare.CF_API_KEY='$CF_API_KEY' \  
  stable/traefik --version 1.59.2
```

Run this to get `EXTERNAL-IP` for the `LoadBalancer` that `traefik` creates:

```
kubectl get svc -n client --field-selector metadata.name=traefik
```

Adjust public DNS records accordingly.

Upgrade

```
env CF_API_EMAIL='PUT_EMAIL_HERE' env CF_API_KEY='PUT_KEY_HERE' \  
helm --debug upgrade --namespace client \  
  traefik --values './k8s/helm/traefik/values.yaml' \  
  --set=acme.dnsProvider.name='cloudflare' \  
  --set=acme.dnsProvider.cloudflare.CF_API_EMAIL='$CF_API_EMAIL' \  
  --set=acme.dnsProvider.cloudflare.CF_API_KEY='$CF_API_KEY' \  
stable/traefik --version 1.59.2
```

Delete (DANGER)

```
helm del --purge traefik
```