

Moving from ingress-nginx?



No need to start over. Traefik supports your existing ingress-nginx annotations as-is — no rewrites, no downtime.

See our [migration guide](#) and [annotation reference](#) to get started.

Traefik & Kubernetes

The Traefik Kubernetes Ingress provider is a Kubernetes Ingress controller; i.e, it manages access to cluster services by supporting the [Ingress](#) specification.



Ingress Backend Resource not supported



Referencing `backend` service endpoints using `spec.rules.http.paths.backend.resource` is not supported. Use `spec.rules.http.paths.backend.service` instead.

Configuration Example

You can enable the `kubernetesIngress` provider as detailed below:

[File \(YAML\)](#)

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```
providers:
  kubernetesIngress:
    enabled: true
```

The provider then watches for incoming ingresses events, such as the example below, and derives the corresponding dynamic configuration from it, which in turn creates the resulting routers, services, handlers, etc.

Configuration Options

Field	Description
<code>providers.providersThrottleDuration</code>	Minimum amount of time to reload, before taking into account refresh event. If multiple events occur within one is taken into account, and This option cannot be set per algorithm applies to each of
<code>providers.kubernetesIngress.endpoint</code>	Server endpoint URL. More information here .
<code>providers.kubernetesIngress.token</code>	Bearer token used for the Kubernetes API. Accepts either the token value or the path to the token file.

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See [label-selectors](#) for detail

`providers.kubernetesIngress.ingressClass`

The `IngressClass` resource `kubernetes.io/ingress.class` identifies resource objects to If empty, resources missing t value, or the value `traefik` :

`providers.kubernetesIngress.disableIngressClassLooku
p`

Deprecated: please use `dis` instead.

Prevent to discover IngressC
It alleviates the requirement
IngressClasses up.
Ignore Ingresses with Ingres
Annotations are not affected

`providers.kubernetesIngress.
ingressEndpoint.hostname`

Hostname used for Kubernet

`providers.kubernetesIngress.
ingressEndpoint.ip`

This IP will get copied to the `status.loadbalancer.ip`, a value (IPv4 or IPv6).

`providers.kubernetesIngress.
ingressEndpoint.publishedService`

The Kubernetes service to cc
More information [here](#).

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operations) before returning

`providers.kubernetesIngress.allowExternalNameService`

Allows the `Ingress` to refer

`providers.kubernetesIngress.crossProviderNamespaces`

List of namespaces from wh
allowed to use

`traefik.ingress.kubernete`

`traefik.ingress.kubernete`

`traefik.ingress.kubernete`

`traefik.ingress.kubernete`

annotations.

When unset, all namespaces
every cross-provider referenc

`providers.kubernetesIngress.nativeLBByDefault`

Allow using the Kubernetes S
pods instead of the one prov
by default.

It can be overridden in the [Se](#)

`providers.kubernetesIngress.disableClusterScopeResour`
`ces`

Prevent from discovering clu
(`IngressClass` and `Nodes`).
By doing so, it alleviates the
rights to look up for cluster r
Furthermore, Traefik will not
`IngressClass` references, the

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When deployed into Kubernetes, Traefik reads the environment variables `KUBERNETES_SERVICE_HOST` and `KUBERNETES_SERVICE_PORT` or `KUBECONFIG` to construct the endpoint.

The access token is looked up in `/var/run/secrets/kubernetes.io/serviceaccount/token` and the SSL CA certificate in `/var/run/secrets/kubernetes.io/serviceaccount/ca.crt`. Both are mounted automatically when deployed inside Kubernetes.

The endpoint may be specified to override the environment variable values inside a cluster.

When the environment variables are not found, Traefik tries to connect to the Kubernetes API server with an external-cluster client.

In this case, the endpoint is required. Specifically, it may be set to the URL used by `kubectl proxy` to connect to a Kubernetes cluster using the granted authentication and authorization of the associated kubeconfig.

File (YAML)

```
providers:
  kubernetesIngress:
    endpoint: "http://localhost:8080"
  # ...
```

File (TOML)

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- **NodePort:** The ExternalIP addresses of the nodes in the cluster will be propagated to the ingress status.
- **LoadBalancer:** The IPs from the service's `loadBalancer.status` field (which contains the endpoints provided by the load balancer) will be propagated to the ingress status.
- **ExternalName:** The hostname from the service's `spec.externalName` field will be propagated to the ingress status.

When using third-party tools such as External-DNS, this option enables the copying of external service IPs to the ingress resources.

File (YAML)

```
providers:
  kubernetesIngress:
    ingressEndpoint:
      publishedService: "namespace/foo-service"
# ...
```

File (TOML)

```
[providers.kubernetesIngress.ingressEndpoint]
publishedService = "namespace/foo-service"
# ...
```

CLI

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? Using Traefik OSS in Production?

If you are using Traefik at work, consider adding enterprise-grade API gateway capabilities or commercial support for Traefik OSS.

- [Watch our API Gateway Demo Video](#)
- [Request 24/7/365 OSS Support](#)

Adding API Gateway capabilities to Traefik OSS is fast and seamless. There's no rip and replace and all configurations remain intact. See it in action via [this short video](#).

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