

# nginx Ingress Controller

After installing metallb we can move on to the ingress part of setup. My preferred choice is nginx. We will also get this ready for monitoring with Prometheus.

Create the namespace.

```
kubectl create namespace ingress-nginx
kubectl label namespace ingress-nginx pod-security.kubernetes.io/enforce=privileged
```

We will use helm to install nginx. This will help with upgrades in the future. Note the extra values for Prometheus.

```
helm upgrade --install ingress-nginx ingress-nginx --repo https://kubernetes.github.io/ingress-nginx --namespace
ingress-nginx --set controller.metrics.enabled=true --set-string
controller.podAnnotations."prometheus\.io/scrape"="true" --set-string
controller.podAnnotations."prometheus\.io/port"="10254"
```

After a little bit of time, we can check the status of the namespace. The important part to note is the service/ingress-nginx-controller. It should have an External-IP provided by metallb.

```
kubectl get all -n ingress-nginx
```

## Example Output:

```
NAME                                READY  STATUS   RESTARTS  AGE
pod/ingress-nginx-controller-8b8b9f598-jqxcr  1/1    Running    0         23m

NAME                                TYPE                CLUSTER-IP    EXTERNAL-IP    PORT(S)                AGE
service/ingress-nginx-controller      LoadBalancer        10.109.19.205  192.168.249.10  80:32588/TCP,443:30617/TCP  23m
service/ingress-nginx-controller-admission  ClusterIP           10.100.21.15   <none>         443/TCP                23m
service/ingress-nginx-controller-metrics  ClusterIP           10.107.12.193  <none>         10254/TCP              23m
service/prometheus-server             NodePort            10.97.78.93    <none>         9090:32631/TCP         5s
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
deployment.apps/ingress-nginx-controller	1/1	1	1	23m

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