

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-jqxc	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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