# Metal LB

This section is to get metallb setup and working for a bare metal setup.

Let create the namespace

```
kubectl create namespace metallb-system
kubectl label namespace metallb-system pod-security.kubernetes.io/enforce=privileged
```

We will use helm for ease of upgrades and the initial install. First, we need to add the repo.

```
helm repo add metallb https://metallb.github.io/metallb
```

Now, install metallb with helm.

```
helm install metallb metallb/metallb -n metallb-system
```

We need to choose a pool of IP addresses that metal lb can hand out for the type LoadBalancer. In my case, I really just want this for nginx ingress. We need to create the following yaml file to apply to the API.

```
apiVersion: metallb.io/v1beta1
kind: IPAddressPool
metadata:
  name: main-pool
  namespace: metallb-system
spec:
  addresses:
  - 192.168.249.10-192.168.249.11
---
apiVersion: metallb.io/v1beta1
kind: L2Advertisement
metadata:
  name: l2-lb
  namespace: metallb-system
```

Lets verify everything is up and running.

```
kubectl get pods -n metallb-system
```

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