Microk8s

Mickrok8s

- MicroK8s is a powerful, lightweight, reliable production-ready Kubernetes distribution.
- Fastest multi-node Kubernetes.
- Enterprise-grade Kubernetes distribution that has a small disk and memory footprint.



MicroK8s

Why Microk8s?

- Single-package fully conformant lightweight Kubernetes that works on Linux, Windows and Mac.
- Micro8s is small, simple, secure, current and comprehensive.
- Dozens of add-ons: DNS, dashboard, storage, RBAC, ingress, MetalLB, registry, GPU, Istio, Linkerd, Knative, fluentd, Prometheus, Jaeger, kubeflow.
- Made for developers, and great for edge, IoT and appliances.

• Install Microk8s

```
sudo snap install microk8s --classic
```

• Join Microk8s group

```
sudo usermod -a -G microk8s "$USER"
sudo chown -f -R "$USER" /.kube
```

Logout of the vm

```
exit
```

ssh into the vm

```
ssh -i "key.pem" ubuntu@.....
```

• Enable Microk8s addons

```
microk8s.enable dns dashboard storage metrics-server
```

Check microk8s status

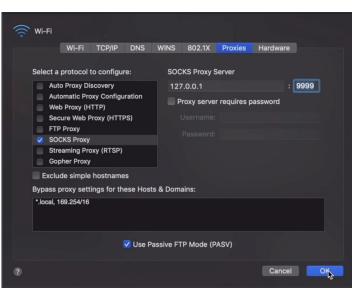
```
microk8s status
microk8s.kubectl get ns
```

Fnable kubeflow

microk8s.enable kubeflow

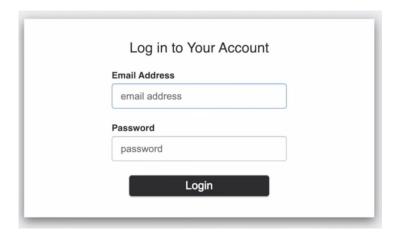
• Exit the vm and enable socks proxy
exit
ssh -i "key.pem" -D9999 ubuntu@<SERVER IP ADDRESS>

Enable SOCKS proxy in your network settings



 Run this ip address in your browser and fill in the dex-auth username and password given.

http://10.64.140.43.xip.io/



Enabling Kubeflow on Microk8s

You should have access to the Kubeflow UI now.

