Microk8s

Microk8s

- MicroK8s is a powerful, lightweight, reliable production-ready Kubernetes distribution.
- Zero-ops highly-available 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.

Visit MicroK8s.io for more information

• 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" <u>ubuntu@.....</u>
```

• Enable Microk8s addons

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

Check microk8s status

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

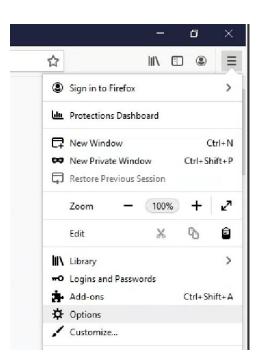
Enable kubeflow

microk8s.enable kubeflow

Exit the vm and configure socks proxy

```
exit ssh -i "key.pem" -D9999 ubuntu@<SERVER_IP_ADDRESS>
```

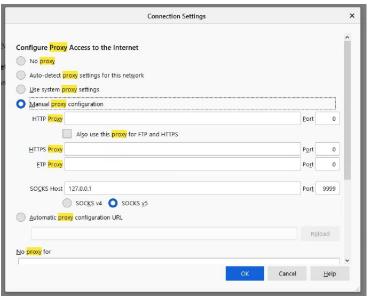
- Configure SOCKS proxy in browser
 - Select options at the top right corner of your browser



Type proxy in search box, click "Settings button

 In the "Connection Settings" window, select "Manual proxy configuration" and configure SOCKS Host "127.0.0.1" and Port "9999". When done, click "OK" button.





• Now copy the Kubeflow GUI address from your terminal (e.g. http://10.64.140.43.xip.io) and paste it into Firefox URL bar.





• Fill in login details



Enabling Kubeflow on Microk8s

You should have access to the Kubeflow UI now.

