Microk8s

It is lightweight

It is going to provision the Kubernetes cluster on the machine you are running locally. For minikube, it does require VM to provision Kubernetes cluster.

Microk8s is installed using snap package manager. Snapd is present by default in ubuntu. Also, make sure you don’t have docker installed already in your local system.

A screenshot of a computer

Description automatically generated

Install single node k8s cluster using microk8s now



If you want to install specific version, please use label

snap install microk8s --classic --channel=1.18/stable

You can check what k8s version present using info

Graphical user interface, text

Description automatically generated

List the cluster

Text

Description automatically generated with medium confidence

Setup alias for kubectl

Text

Description automatically generated

Containerd as default runtime in latest k8s version

Text

Description automatically generated

Create a pod

Text

Description automatically generated

Install the addons

Text

Description automatically generated

Get the details of dashboard  
  
Graphical user interface

Description automatically generated  
  
Port forward the request, or you wont be able to see the dashboard



Get the token details

Graphical user interface, text

Description automatically generated

Login to Dashboard

Graphical user interface, text, application

Description automatically generated

View the Dashboard

Graphical user interface, text, application, email

Description automatically generated

Clean the cluster

Text

Description automatically generated

Remove microk8s

Graphical user interface, text

Description automatically generated

Reference  
https://kubernetes.io/blog/2019/11/26/running-kubernetes-locally-on-linux-with-microk8s/  
<https://ubuntu.com/tutorials/install-a-local-kubernetes-with-microk8s#4-accessing-the-kubernetes-dashboard>  
<http://www.thecloudavenue.com/2020/04/microk8s-k8s-setup.html>

<https://www.openlogic.com/blog/how-get-and-running-kubernetes-using-microk8s> - For centos/redhat