Kubernetes Installation

Basic Kubernetes install - minikube

Pc requirements: minimum 2 cpu

Kubelctl install url
https://kubernetes.io/docs/tasks/tools/install-kubectl-linux/#install-using-native-package-management

Minikube install URL

https://minikube.sigs.k8s.io/docs/start/

Minikube driver page
https://minikube.sigs.k8s.io/docs/drivers/docker/

Step 1: First install docker.

Step 2: install kubectl on ubuntu
URL: https://kubernetes.io/docs/tasks/tools/install-kubectl-linux/#install-kubectl-binary-with-curl-on-linux

```
# curl -LO "https://dl.k8s.io/release/$(curl -L -s
https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl"
```


For check the linux file type
uname -m

If Linux x86-64:

```
curl -LO https://dl.k8s.io/release/v1.27.3/bin/linux/amd64/kubectl
```

or

if the linux is ARM64:

```
curl -LO https://dl.k8s.io/release/v1.27.0/bin/linux/arm64/kubectl
```


```
curl -LO "https://dl.k8s.io/$(curl -L -s
https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl.sha256"
```


```
echo "$(cat kubectl.sha256)  kubectl" | sha256sum –check
```


Install kubectl

```
sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
```

Check installation:

```
# kubectl version --client

# kubectl version --client --output=yaml
```

Step 3:

Minikube installation

#curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64
#sudo install minikube-linux-amd64 /usr/local/bin/minikube

Step:4

Run the following command to run minikube use docker driver
$ sudo groupadd docker
$ sudo gpasswd -a $USER docker
$ sudo usermod -aG docker rajiv
$ sudo service docker restart
$ su - rajiv

Step:5

Start minukube if your driver is docker
#minikube start --driver=docker