

Devops : Task 3

Install Minikube:

```
swetha@SWETHA:~$ minikube start --driver=docker
minikube v1.35.0 on Ubuntu 24.04 (amd64)
Using the docker driver based on user configuration
Using Docker driver with root privileges
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.46 ...
Downloading Kubernetes v1.32.0 preload ...
> gcr.io/k8s-minikube/kicbase...: 34.80 MiB / 500.31 MiB 6.96% 134.43 KiB
> preloaded-images-k8s-v18-v1...: 64.75 MiB / 333.57 MiB 19.41% 248.10 KiB
> index.docker.io/kicbase/sta...: 500.31 MiB / 500.31 MiB 100.00% 2.15 MiB
! minikube was unable to download gcr.io/k8s-minikube/kicbase:v0.0.46, but successfully downloaded docker.io/kicbase/stable:v0.0.46@sha256:fd2d445ddcc33ebc5c6b68a17e6219ea207ce63c005095ea1525296da2d1a279 as a fallback image
Creating docker container (CPUs=2, Memory=2200MB) ...
> kubectrl.sha256: 64 B / 64 B [-----] 100.00% ? p/s 0s
> kubeadm.sha256: 64 B / 64 B [-----] 100.00% ? p/s 0s
> kubelet.sha256: 64 B / 64 B [-----] 100.00% ? p/s 0s
> kubectrl: 54.67 MiB / 54.67 MiB [-----] 100.00% 405.75 KiB p/s 2m18s
> kubeadm: 67.66 MiB / 67.66 MiB [-----] 100.00% 372.77 KiB p/s 3m6s
> kubelet: 73.81 MiB / 73.81 MiB [-----] 100.00% 358.57 KiB p/s 3m31s

  * Generating certificates and keys ...
  * Booting up control plane ...
  * Configuring RBAC rules ...
Configuring bridge CNI (Container Networking Interface) ...
Verifying Kubernetes components...
  * Using image gcr.io/k8s-minikube/storage-provisioner:v5
Enabled addons: storage-provisioner, default-storageclass
```

Install Kubectl:

```
swetha@SWETHA:~$ kubectl create deployment r2 --image=swethar22cse/devops-image --port=80
deployment.apps/r2 created
swetha@SWETHA:~$ kubectl get pods
NAME                                READY   STATUS              RESTARTS   AGE
r1-98c6f9c9f-w6wpb                 0/1     ImagePullBackOff    0           26m
r2-5cb4d7959d-n66xs                 0/1     ContainerCreating   0           30s
swetha@SWETHA:~$ kubectl get pods
NAME                                READY   STATUS              RESTARTS   AGE
r1-98c6f9c9f-w6wpb                 0/1     ImagePullBackOff    0           27m
r2-5cb4d7959d-n66xs                 1/1     Running             0           100s
swetha@SWETHA:~$ kubectl expose deployment r2 --port=80 --type=NodePort
service/r2 exposed
swetha@SWETHA:~$ minikube service r2
```

NAMESPACE	NAME	TARGET PORT	URL
default	r2	80	http://192.168.49.2:31415

```

  * Starting tunnel for service r2.
```

NAMESPACE	NAME	TARGET PORT	URL
default	r2		http://127.0.0.1:38175

```

Opening service default/r2 in default browser...
http://127.0.0.1:38175
! Because you are using a Docker driver on linux, the terminal needs to be open to run it.
```

OUTPUT:

http://127.0.0.1:38175

