

SAHASRAN M-22CSR167 ||CSE C

DevOps Day 3 Task

<https://kubernetes.io/docs/tasks/tools/install-kubectl-linux/>

curl -LO

<https://dl.k8s.io/release/v1.32.0/bin/linux/amd64/kubectl>

sudo install -o root -g root -m 0755 kubectl

/usr/local/bin/kubectl chmod +x kubectl mkdir -p ~/.local/bin

mv ./kubectl ~/.local/bin/kubectl kubectl version --client

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

chmod +x kubectl mkdir

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kubectl version --client

<https://minikube.sigs.k8s.io/docs/start/?arch=%2Fwindows%2Fx86-64%2Fstable%2F.exe+download>

<https://github.com/kubernetes/minikube/releases/latest/download/minikube-linux-amd64>

sudo install minikube-linux-amd64 /usr/local/bin/minikube CC rm minikube-linux-amd64

minikube start

minikube start

```
🌟 Enabled addons: storage-provisioner, default-storageclass
🏃 Done! kubectl is now configured to use "minikube" cluster
ubuntu@DESKTOP-MJGHIPO:~$ minikube start
😄 minikube v1.35.0 on Ubuntu 24.04 (amd64)
🔖 Using the docker driver based on existing profile
👍 Starting "minikube" primary control-plane node in "minikube"
🚚 Pulling base image v0.0.46 ...
🏃 Updating the running docker "minikube" container ...
🐳 Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
🔍 Verifying Kubernetes components...
   ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v1
🌟 Enabled addons: default-storageclass, storage-provisioner
🏃 Done! kubectl is now configured to use "minikube" cluster
ubuntu@DESKTOP-MJGHIPO:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

ubuntu@DESKTOP-MJGHIPO:~$ kubectl get pod
No resources found in default namespace.
ubuntu@DESKTOP-MJGHIPO:~$ kubectl get deploy
Command 'kubectl' not found, did you mean:
```

```
0      0      0      0      0      0      0      0      0      0      0      0      0
0      0      0      0      0      0      0      0      0      0      0      0      0
3 119M 3 4883k 0 0 8022 0 4:20:15 0:10:23 4:09:52 0
rl: (56) Recv failure: Connection timed out
und@DESKTOP-MJGHIPO:~$ curl -LO https://github.com/kubernetes/minikube/releases/latest/download/minikube-linux-amd64
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left     Speed
0      0      0      0      0      0      0      0      0      0      0      0      0
0      0      0      0      0      0      0      0      0      0      0      0      0
0 119M 100 119M 0 0 1537k 0 0:01:19 0:01:19 --:--:-- 984k
und@DESKTOP-MJGHIPO:~$ sudo install minikube-linux-amd64 /usr/local/bin/minikube && rm minikube-linux-amd64
[sudo] password for undu:
und@DESKTOP-MJGHIPO:~$ minikube start
minikube v1.35.0 on Ubuntu 24.04 (amd64)
Automatically selected the docker driver. Other choices: ssh, none
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 ...
> preloaded-images-k8s-v18-v1...: 333.57 MiB / 333.57 MiB 100.00% 1.84 Mi
> gcr.io/k8s-minikube/kicbase...: 500.31 MiB / 500.31 MiB 100.00% 1.67 Mi
Creating docker container (CPUs=2, Memory=2200MB) ...- ^[
Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
  ▪ 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
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
und@DESKTOP-MJGHIPO:~$ |
```

minikube status

kubectl get pod

kubectl get deploy

kubectl get replica

kubectl get pod -o wide

version: '3' services:

web: image:

nginx:latest

ports:

- 80:80

db:

image: mysql:latest

environment:

- MYSQL_ROOT_PASSWORD=secret

```
docker exec -it david-db-1 /bin/bash  
mysql -u root -p DevOps
```

Day 3 Task

Tasks Completed:

- ☐ I have installed minikube and executed several commands.