

Mugesh V-22CSR124 ||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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<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 && rm minikube-linux-amd64
```

```
minikube start
```

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minikube start
```

```

huges@DESKTOP-ELKSV5N:~$ 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" cluster
Pulling base image v0.0.46 ...
Restarting existing docker container for "minikube" ...
Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
Verifying Kubernetes components...
  ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
Enabled addons: default-storageclass, storage-provisioner
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
huges@DESKTOP-ELKSV5N:~$ kubectl run my-pod --image=nginx --port=80
pod/my-pod created
huges@DESKTOP-ELKSV5N:~$ kubectl get pod
NAME      READY   STATUS             RESTARTS   AGE
my-pod    0/1     ContainerCreating   0           9s
huges@DESKTOP-ELKSV5N:~$ kubectl delete all --all
error: unknown shorthand flag: 'a' in -all
See 'kubectl delete --help' for usage.
huges@DESKTOP-ELKSV5N:~$ kubectl delete all --all
pod "my-pod" deleted
service "kubernetes" deleted
huges@DESKTOP-ELKSV5N:~$ kubectl run my-pod --image=nginx --port=7070
pod/my-pod created
huges@DESKTOP-ELKSV5N:~$ kubectl get pod
NAME      READY   STATUS    RESTARTS   AGE
my-pod    1/1     Running   0           56s
huges@DESKTOP-ELKSV5N:~$

```

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.

```
mugesh@DESKTOP-ELKSV5N: x + v
cp, 127.0.0.1:32771->2376/tcp, 127.0.0.1:32770->5000/tcp, 127.0.0.1:32769->8443/tcp, 127.0.0.1:32768->32443/tcp minikube
mugesh@DESKTOP-ELKSV5N:~$ sudo docker exec -it mugesh_web_1 mysql -u root -p
OCI runtime exec failed: exec failed: unable to start container process: exec: "mysql": executable file not found in $PATH: unknown
mugesh@DESKTOP-ELKSV5N:~$ sudo docker exec -it mugesh_web_1 mysql -u root -p
OCI runtime exec failed: exec failed: unable to start container process: exec: "mysql": executable file not found in $PATH: unknown
mugesh@DESKTOP-ELKSV5N:~$ sudo docker exec -it mugesh_web_1 mysql -u root -p
OCI runtime exec failed: exec failed: unable to start container process: exec: "mysql": executable file not found in $PATH: unknown
mugesh@DESKTOP-ELKSV5N:~$ sudo apt install docker-compose -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
docker-compose is already the newest version (1.29.2-6ubuntu1).
0 upgraded, 0 newly installed, 0 to remove and 56 not upgraded.
mugesh@DESKTOP-ELKSV5N:~$ sudo docker exec -it mugesh_web_1 mysql -u root -p
OCI runtime exec failed: exec failed: unable to start container process: exec: "mysql": executable file not found in $PATH: unknown
mugesh@DESKTOP-ELKSV5N:~$ sudo docker exec -it mugesh_db_1 mysql -u root -p
Enter password:
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)
mugesh@DESKTOP-ELKSV5N:~$ sudo docker exec -it mugesh_db_1 mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 9.2.0 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> |
```