

PAGALAVAN K S-22CSR140 |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
```

```

mugesh@DESKTOP-ELK5V5N:~$ 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
mugesh@DESKTOP-ELK5V5N:~$ kubectl run my-pod --image=nginx --port=80
pod/my-pod created
mugesh@DESKTOP-ELK5V5N:~$ kubectl get pod
NAME      READY   STATUS    RESTARTS   AGE
my-pod    0/1     ContainerCreating   0          9s
mugesh@DESKTOP-ELK5V5N:~$ kubectl delete all --all
error: unknown shorthand flag: 'a' in -all
see 'kubectl delete --help' for usage.
mugesh@DESKTOP-ELK5V5N:~$ kubectl delete all --all
pod "my-pod" deleted
service "kubernetes" deleted
mugesh@DESKTOP-ELK5V5N:~$ kubectl run my-pod --image=nginx --port=7070
pod/my-pod created
mugesh@DESKTOP-ELK5V5N:~$ kubectl get pod
NAME      READY   STATUS    RESTARTS   AGE
my-pod    1/1     Running   0          56s
mugesh@DESKTOP-ELK5V5N:~$

```

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

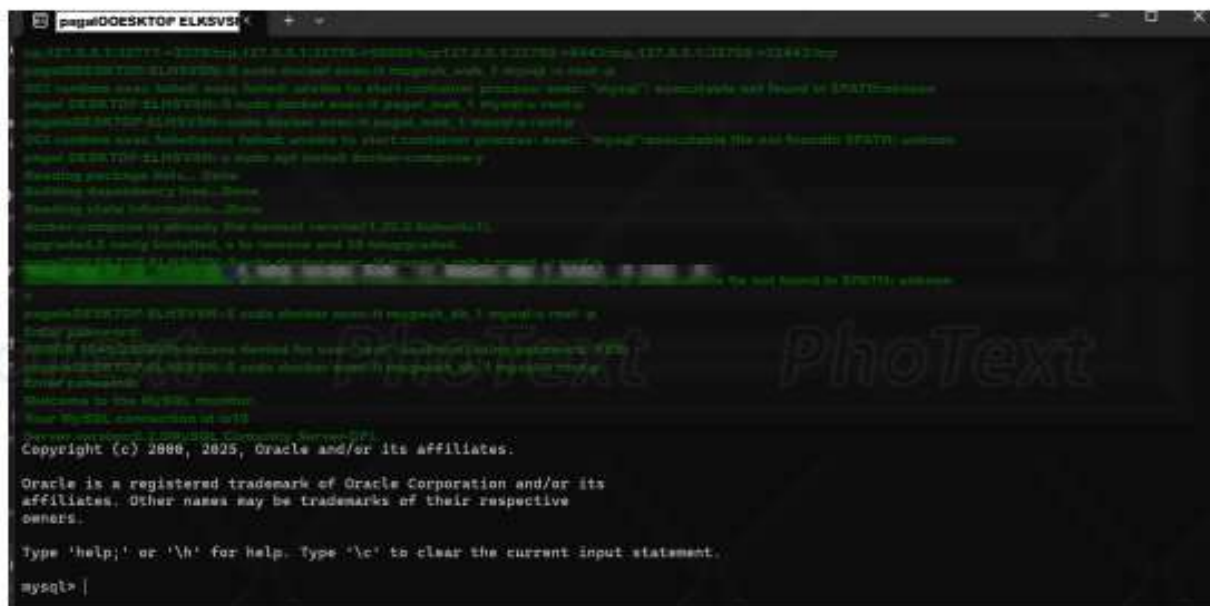
docker exec -it david-db-1 /bin/bash

mysql -u root -p

## DevOps Day 3 Task

### Tasks Completed:

- I have installed minikube and executed several commands.



```
pagel@DESKTOP-ELK5V51: ~$ kubectl exec -it mysql-0 -- mysql -u root -p
mysql: [Warning] Using a password on the command line to connect is insecure.
mysql>
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
mysql> use mysql;
Database changed
mysql> show tables;
+-----+
| Tables_in_mysql |
+-----+
| user |
+-----+
mysql> select * from user;
+-----+
| user | password |
+-----+
| root | |
+-----+
mysql>
```