

Day 3 – Minikube installation and mysql

```
curl -LO 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
```

```
minikube start
```

```
minikube status
```

YML file

```
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

```
saran@FingerGripPC: ~  
Microsoft Windows [Version 10.0.26100.3076]  
(C) Microsoft Corporation. All rights reserved.  
  
C:\Users\lenovo\OneDrive>  
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 5.15.167.4-microsoft-standard-WSL2 amd64)  
  
 * Documentation:  https://help.ubuntu.com  
 * Management:    https://landscape.canonical.com  
 * Support:        https://ubuntu.com/support  
  
System information as of Fri Mar 22 03:46:34 UTC 2025  
  
System load: 1.48      Processes:           57  
Usage of /:  0.0% of 100G.850M   Users logged in:    0  
Memory usage: 37%          IPv6 address for eth0: 172.17.0.101  
Swap usage:   0%  
  
This message is shown once a day. To disable it please create the  
/home/saran/.hushlogin file  
  
saran@FingerGripPC:~$ cd /opt/c/Users/saran/OneDrive  
saran@FingerGripPC:~/OneDrive$ sudo service minikube restart  
[sudo] password for saran:  
minikube v1.35.0 on Ubuntu 24.04 (amd64)  
Type: Control Plane  
Host: Stopped  
kubelet: Stopped  
apiserver: Stopped  
kubernetes: Stopped  
  
saran@FingerGripPC:~$ 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" ...  
 * To pull new external images you may need to configure a proxy: https://minikube.sigs.k8s.io/docs/reference/networking/proxy/  
 * Preparing Kubernetes v1.32.4 on Docker 27.4.1 ...  
 * 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  
saran@FingerGripPC:~$ ls  
deployment.yml  local  pod-to-pod  rs.yml  
docker-compose.yml  sa-test.yml  pod.yml  
saran@FingerGripPC:~$ minikube ssh  
saran@FingerGripPC:~$ docker login  
WARNING! Your password will be stored unencrypted in /home/saran/.docker/config.json.  
Configure a credential helper to prevent this warning. See  
https://docs.docker.com/engine/reference/command/login/#credentials-store  
  
Login Succeeded  
  
saran@FingerGripPC:~$ docker exec -it saran-docker /bin/bash  
Error response from daemon: No such container: saran-docker  
saran@FingerGripPC:~$ mysql -u root -p  
Command 'mysql' not found, but can be installed with:  
sudo apt install mysql-client-core-8.0 # version 8.0.42-0ubuntu24.04.1, or  
sudo apt install mysql-client-core # version 1:10.11.5-0ubuntu24.04.1, or  
saran@FingerGripPC:~$ sudo apt install mysql-client-core-8.0  
[sudo] password for saran:  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following NEW packages will be installed:  
  mysql-client-core-8.0  
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.  
Need to get 2727 kB of archives.  
After this operation, 41.7 MB of additional disk space will be used.  
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 mysql-client-core-8.0 amd64 8.0.42-0ubuntu24.04.1 [2727 kB]  
Fetched 2727 kB in 30s (130 kB/s)  
Selecting previously unselected package mysql-client-core-8.0.  
(Reading database ... 5000 files and directories currently installed.)  
Preparing to unpack .../mysql-client-core-8.0_8.0.42-0ubuntu24.04.1_amd64.deb ...  
Unpacking mysql-client-core-8.0 (8.0.42-0ubuntu24.04.1) ...  
Setting up mysql-client-core-8.0 (8.0.42-0ubuntu24.04.1) ...
```

```
anpu@ASWINPRABU:~$ 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
```