

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\lanovm\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:           67
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:~/c$/c$/Users/lanovm$ cd
saran@FingerGripPC:~/c$/c$/Users/lanovm$ sudo service minikube restart
[sudo] password for saran:
saran@FingerGripPC:~/c$/c$/Users/lanovm$ minikube status
minikube
Type: Control Plane
Host: Stopped
HostOS: Stopped
APIServer: Stopped
kubeconfig: Stopped

saran@FingerGripPC:~/c$/c$/Users/lanovm$ minikube start
minikube v1.39.0 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 amd64/...
 * Restarting existing docker container for "minikube" ...
 * Failure to connect to https://registry.k8s.io/ from inside the minikube container
 * To pull new external images you may need to configure a proxy: https://minikube.sigs.k8s.io/docs/reference/networking/proxy/
 * Preparing kuberneteta v1.32.4 on Docker 27.4.1 ...
 * Verifying kuberneteta components
 * Using image gcr.io/k8s-minikube/storage-provisioner:v5
 * Enabling add-on: storage-provisioner. default-storageclass
 * Done! kubectll is now configured to use "minikube" cluster and "default" namespace by default
saran@FingerGripPC:~/c$/c$/Users/lanovm$ minikube ssh
saran@FingerGripPC:~$ ls
deployment.yaml  local  pod-to-pod.py  rs.yaml
docker-compose.yaml  sa-test.yaml  pod.yaml
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/commandline/login/#credentials-store

Login Succeeded

saran@FingerGripPC:~$ docker exec -it saran-d0-1 /bin/bash
Error response from daemon: No such container: saran-d0-1
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
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 66 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 3s (138 kB/s)
Selecting previously unselected package mysql-client-core-8.0.
(Reading database ... 5070 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) ...
```