

Sachinsandron S - 22CSR165 || 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 [https://kubernetes.io/docs/tasks/tools/install-](https://kubernetes.io/docs/tasks/tools/install-kubectl-linux/)

kubectl-linux/

<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

<https://minikube.sigs.k8s.io/docs/start/?arch=%2Fwindows%2Fx86->

64%2Fstable%2F.exe+download

[https://github.com/kubernetes/minikube/releases/latest/download/minikube-](https://github.com/kubernetes/minikube/releases/latest/download/minikube-linuxamd64)

linuxamd64 sudo install minikube-linux-amd64 /usr/local/bin/minikube && rm

minikube-linuxamd64

minikube start minikube

start

```
achin_@sachin: ~$ 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 ...
Updating the running docker "minikube" container ...
Failing 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 Kubernetes v1.32.0 on Docker 27.4.1 ...
Verifying Kubernetes components...
  * Using image gcr.io/k8s-minikube/storage-provisioner:v5
Enabled addons: storage-provisioner, default-storageclass
Done! kubectcl is now configured to use "minikube" cluster and "default" namespace by default
achin_@sachin:~$ kubectl run my-pod --image=nginx --port=80
pod/my-pod created
achin_@sachin:~$ kubectl get pod
kubectlget: command not found
achin_@sachin:~$ kubectlc get pod
Command 'kubectlc' not found, did you mean:
  Command 'kubectl' from snap kubectl (1.32.3)
See 'snap info <snapname>' for additional versions.
achin_@sachin:~$ kubectl get pod
NAME      READY   STATUS              RESTARTS   AGE
my-pod    0/1     ImagePullBackOff    0           34s
achin_@sachin:~$ kubectl delete all --all
pod "my-pod" deleted
service "kubernetes" deleted
achin_@sachin:~$ kubectl run my-pod --image=nginx --port=7070
pod/my-pod created
achin_@sachin:~$ kubectl get pod
NAME      READY   STATUS              RESTARTS   AGE
my-pod    0/1     ContainerCreating   0           4s
achin_@sachin:~$
```

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.

```
my-pod 0/1 ContainerCreating 0 4s
sachin@sachin:~$ sudo docker exec -it sachin_web_1 mysql -u root -p
[sudo] password for sachin:
Error response from daemon: No such container: sachin_web_1
sachin@sachin:~$ sudo apt install docker-compose -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  python3-compose python3-docker python3-dockerpty python3-doccopt
  python3-dotenv python3-packaging python3-texttable python3-websocket
The following NEW packages will be installed:
  docker-compose python3-compose python3-docker python3-dockerpty
  python3-doccopt python3-dotenv python3-packaging python3-texttable
  python3-websocket
0 upgraded, 9 newly installed, 0 to remove and 0 not upgraded.
Need to get 338 kB of archives.
After this operation, 1779 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble/universe amd64 python3-websocket all 1.7.0-1 [38.1 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble/main amd64 python3-packaging all 24.0-1 [41.1 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 python3-docker all 5.0.3-1ubuntu1.1 [89.1 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble/universe amd64 python3-dockerpty all 0.4.1-5 [11.4 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble/universe amd64 python3-doccopt all 0.6.2-6 [26.1 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble/universe amd64 python3-dotenv all 1.0.1-1 [22.3 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble/universe amd64 python3-texttable all 1.6.7-1 [11.0 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble/universe amd64 python3-compose all 1.29.2-6ubuntu1 [84.6 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble/universe amd64 docker-compose all 1.29.2-6ubuntu1 [14.0 kB]
Fetched 338 kB in 2s (164 kB/s)
Selecting previously unselected package python3-websocket.
(Reading database ... 41413 files and directories currently installed.)
Preparing to unpack .../0-python3-websocket_1.7.0-1_all.deb ...
Unpacking python3-websocket (1.7.0-1) ...
Selecting previously unselected package python3-packaging.
Preparing to unpack .../1-python3-packaging_24.0-1_all.deb ...
Unpacking python3-packaging (24.0-1) ...
Selecting previously unselected package python3-docker.
Preparing to unpack .../2-python3-docker_5.0.3-1ubuntu1.1_all.deb ...
Unpacking python3-docker (5.0.3-1ubuntu1.1) ...
Selecting previously unselected package python3-dockerpty.
Preparing to unpack .../3-python3-dockerpty_0.4.1-5_all.deb ...
Unpacking python3-dockerpty (0.4.1-5) ...
```