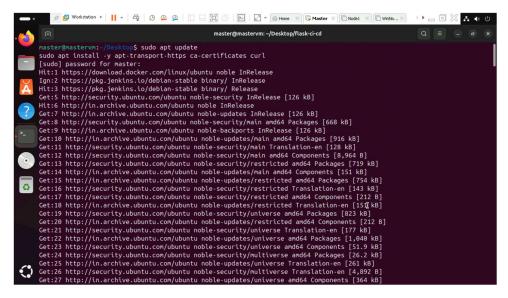
Project - 3

Jenkins-Docker-Kubernetes Project



```
master@mastervm:-/Desktop$ chmod +x minikube-linux-amd64
sudo mv minikube-linux-amd64 /usr/local/bin/minikube
master@mastervn:-/Desktop$ minikube start --driver=docker

minikube v1.35.0 on Ubuntu 24.04

Using the docker driver based on user configuration
Using Docker driver with root privileges
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.46 ...
Downloading Kubernetes v1.32.0 preload ...
> preloaded-images-k8s-v18-v1...: 333.57 MiB / 333.57 MiB 100.00% 11.23 M
> gcr.io/k8s-minikube/kicbase...: 500.31 MiB / 500.31 MiB 100.00% 10.58 M

Creating docker container (CPUs=2, Memory=2200MB) ...

Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
■ Generating certificates and keys ...
■ Booting up control plane ...
■ Configuring BRAC rules ...

Configuring bridge CNI (Container Networking Interface) ...

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

master@mastervm:-/Desktop$ kubectl cluster-info
Kubernetes control plane is running at https://192.168.49.2:8443
CoreDNS is running at https://192.168.49.2:8443/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy
```

```
master@mastervn:-/Desktop, kdir flask-ci-cd
cd flask-ci-cd
master@mastervn:-/Desktop/flask-ci-cd; nano app.py
master@mastervn:-/Desktop/flask-ci-cd; nano app.py
master@mastervn:-/Desktop/flask-ci-cd; nano app.py
master@mastervn:-/Desktop/flask-ci-cd; nano pockerfile

[-] Building 70.6s (11/11) FINISHED

docker:default

[-] Building 70.6s (11/11) FINISHED

subject to the subject to th
```

```
master@mastervm:-/Desktop/flask-cl-cd$ kubectl create secret docker-registry docker-hub-secret \
    --docker-server=https://index.docker.io/v1/ \
    --docker-username=sahil0824 \
    --docker-password=Starsahil08248 \
    --docker-email=t.sahilsingh2429@gmail.com
secret/docker-hub-secret created
master@mastervm:-/Desktop/flask-ct-cd$ nano kBs-deployment.yaml
master@mastervm:-/Desktop/flask-ct-cd$ kubectl apply -f kBs-deployment.yaml
deployment.apps/flask-app created
service/flask-service created
master@mastervm:-/Desktop/flask-ct-cd$ kubectl apply -f kBs-deployment.yaml
deployment.apps/flask-app created
service/flask-service created
master@mastervm:-/Desktop/flask-ct-cd$ kubectl get pods
NAME
    READY STATUS
    RESTARTS AGE
flask-app-58bBcc8758-2692m 0/1 ContainerCreating 0 20s
master@mastervm:-/Desktop/flask-ct-cd$ kubectl get pods
NAME
    READY STATUS RESTARTS AGE
flask-app-58bBcc8758-2692m 1/1 Running 0 101s
flask-app-58bBcc8758-2692m 1/1 Running 0 101s
flask-app-58bBcc8758-dgsxj 1/1 Running 0 101s
master@mastervm:-/Desktop/flask-ct-cd$
```