PROJECT-3

DOCKERIZIED CICID PIPELINES USING JENKINS AND KUBERENATES

```
master@master.vm:-/Wesktop$ sudo apt update
sudo apt install -y apt-transport-https ca-certificates curl
[sudo] password for master:
Htt: https://download.docker.com/linux/ubuntu jammy InRelease
Get:2 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:2 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:4 http://in.archive.ubuntu.com/ubuntu jammy-updates/Get:4 http://in.archive.ubuntu.com/ubuntu jammy-updates/InRelease
Get:4 http://in.archive.ubuntu.com/ubuntu jammy-updates/InRelease
Get:6 http://in.archive.ubuntu.com/ubuntu jammy-updates/Juniverse and64 Packages [2,377 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu jammy-updates/Juniverse and64 Packages [1,193 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu jammy-updates/Juniverse and64 Packages [7,60 kB]
Fetched 4,587 kB in 8s (578 kB/s)
Reading package lists... Done
Building dependency tree... Done
Building dependency tree... Done
Reading state information... Done
2 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading state information... Done
Geaching state information... Done
Ca-certificates is already the newest version (20240203-22.04.1).
curl is already the newest version (7.81.0-lubuntul.20).
apt-transport-https is already the newest version (2.4.13).
0 upgraded, 0 newly installed, 0 to remove and 2 not upgraded.
master/master-vvv:/epuskup$ curl -L0 "https://dl.k8s.io/release/s(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/k
ubectl
chnod -x kubectl
sudo nv k
```

```
master@master-vm:-/Desktop$ kubectl version
Client Version: v1.32.2
Kustom/ze Version: v5.5.0
The connection to the server localhost:8080 was refused - did you specify the right host or port?
master@master-vm:-/Desktop$ curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64
chmod +x minikube-linux-amd64 /usr/local/bin/minikube
% Total % Received % Xferd Average Speed Time Time Current
Dload Upload Total Spent Left Speed
100 119M 100 119M 0 0 13.8M 0 0:00:08 0:00:08 -:--:- 19.9M
```

```
master@master.vm:-/Desktop$ sudo systemctl start docker
master@master.vm:-/Desktop$ minikube start --driver=docker
ininkube vi.35.0 on Ubuntu 22.04
Using Docker driver with root privileges
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base inage vo.0.46...
Pulling base inage vo.0.46...
Pulling base inage vo.0.46...
> preloaded inages-k8s-v19-v1...: 331.57 HiB / 333.57 HiB 100.00% 9.04 Hi
> pcr.io/k8s-minikube/kicbase...: 500.06 HiB / 500.31 HiB 99.95% 9.39 HiB
Creating docker container (CPUs=2, Menory-2200MB)...
Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...

© Configuring priving control plane ...
© Configuring BaRa rules ...
© Configuring BaRa rules ...
© Configuring Bridge CNI (Container Networking Interface) ...
Verifying Kubernetes components...

© Using inage 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

**nastermaster-ver-psektops 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

To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.

**nastermaster-ver-psektops glt clone https://github.com/Bhargavkulla/flask-cl-cd.glt
Cloning into 'flask-cl-cd'...
renote: Enumerating objects: 100% (21/21), done.
renote: Compressing objects: 100% (21/21), done.
renote: Compressing objects: 100% (21/21), done.
renote: Total 24 (delta 7), reused 0 (delta 0), pack-reused 0 (from 0)

**Receiving objects: 100% (7/7), done.
Resolving deltas: 100% (7/7), done.
```

```
master@master-vm:~/Desktop/flask-ci-cd$ kubectl get pods

NAME READY STATUS RESTARTS AGE
flask-app-dc55b55f7-6wxzb 1/1 Running 0 7m2s
flask-app-dc55b55f7-q5zwk 1/1 Running 0 7m2s
master@master-vm:~/Desktop/flask-ci-cd$
```