## KARAN YASHWANT KALBHOR STUDENT ID- 101494204

### minikube start --nodes 2 -p multinode-demo

```
PowerShell
                                  Docker Engine installation instructions: https://docs.docker.com/engine/install/#server
     Starting control plane node multinode-demo in cluster multinode-demo
    Pulling base image ...
   Downloading Kubernetes v1.28.3 preload ...
> preloaded-images-k8s-v18-v1...: 403.35 MiB / 403.35 MiB 100.00% 24.07 M
Creating docker container (CPUs=2, Memory=2200MB) ...
Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
     • Generating certificates and keys ...
   • Booting up control plane ...
• Configuring RBAC rules ...
Configuring CNI (Container Networking Interface) ...
Verifying Kubernetes components...

    Using image gcr.io/k8s-minikube/storage-provisioner:v5

    Enabled addons: storage-provisioner, default-storageclass
     Starting worker node multinode-demo-m02 in cluster multinode-demo
    Pulling base image .
    Creating docker container (CPUs=2, Memory=2200MB) ...
   Found network options:
• NO_PROXY=192.168.58.2
   Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
• env NO_PROXY=192.168.58.2
    Verifying Kubernetes components...
   /usr/local/bin/kubectl is version 1.25.9, which may have incompatibilities with Kubernetes 1.28.3.
• Want kubectl v1.28.3? Try 'minikube kubectl -- get pods -A'
Done! kubectl is now configured to use "multinode-demo" cluster and "default" namespace by default
 aran@DESKTOP-IPPI92K:-$
```

#### kubectl get nodes

```
karan@DESKTOP-IPPI92K:-$ kubectl get nodes
NAME
                      STATUS
                               ROLES
                                                AGE
                                                       VERSION
multinode-demo
                      Ready
                               control-plane
                                                2m7s
                                                       v1.28.3
multinode-demo-m02
                      Ready
                               <none>
                                                615
                                                       v1.28.3
karan@DESKTOP-IPPI92K:~$
```

## minikube status -p multinode-demo

```
karan@DESKTOP-IPPI92K:~$ minikube status -p multinode-demo
multinode-demo
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

multinode-demo-m02
type: Worker
host: Running
kubelet: Running
kubelet: Running
```

## minikube dashboard -p multinode-demo

```
karan@DESKTOP-IPPI92K: $ minikube dashboard -p multinode-demo

Fenabling dashboard ...

Using image docker.io/kubernetesui/dashboard:v2.7.0

Using image docker.io/kubernetesui/metrics-scraper:v1.0.8

Some dashboard features require the metrics-server addon. To enable all features please run:

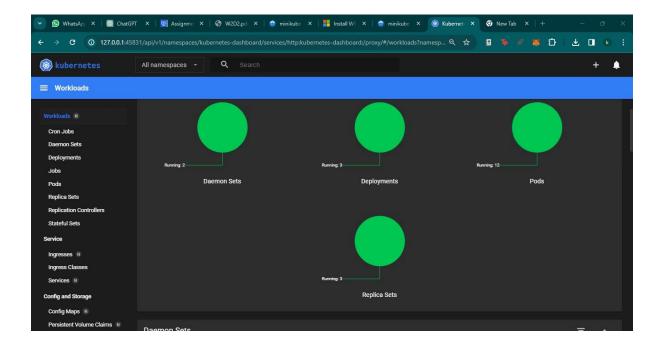
minikube -p multinode-demo addons enable metrics-server

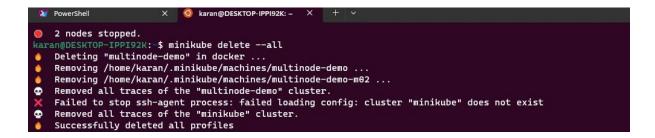
Verifying dashboard health ...

Launching proxy ...
Verifying proxy health ...

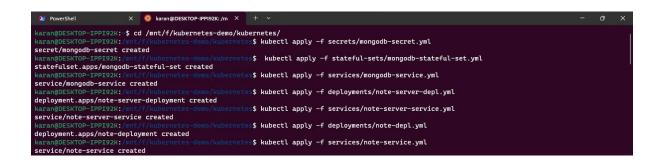
Opening http://127.0.0.1:45831/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...

http://127.0.0.1:45831/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/
```





#### #Kubernetes demo screenshots





# Important Assignments

0



