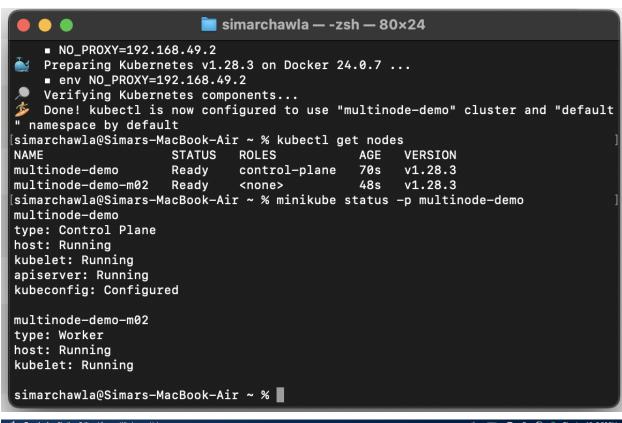
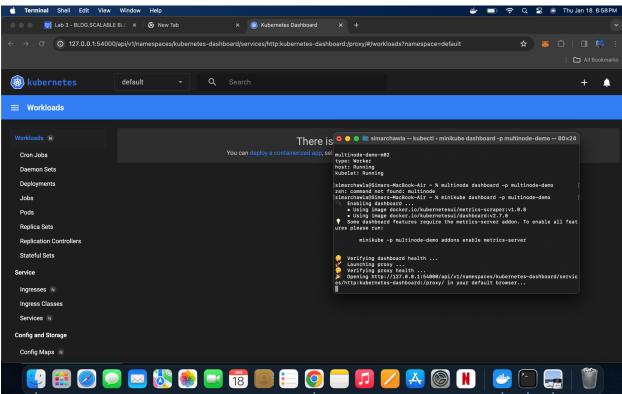
```
simarchawla — -zsh — 80×24
Last login: Thu Jan 18 18:48:56 on ttys002
[simarchawla@Simars-MacBook-Air ~ % minikube start --nodes 2 -p multinode-demo
     [multinode-demo] minikube v1.32.0 on Darwin 14.2.1 (arm64)
    Automatically selected the docker driver
    Using Docker Desktop driver with root privileges
    Starting control plane node multinode-demo in cluster multinode-demo
    Pulling base image ...
    Downloading Kubernetes v1.28.3 preload ...
    > preloaded-images-k8s-v18-v1...: 341.16 MiB / 341.16 MiB 100.00% 5.47 Mi > gcr.io/k8s-minikube/kicbase...: 410.58 MiB / 410.58 MiB 100.00% 6.38 Mi Creating docker container (CPUs=2, Memory=2200MB) ...
     Executing "docker ps -a --format {{.Names}}" took an unusually long time: 3.
119537958s
    Restarting the docker service may improve performance.
    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
```





```
🔃 simarchawla — -zsh — 80×24
les.
To start a cluster, run: "minikube start -p multinode"
[simarchawla@Simars-MacBook-Air ~ % minikube profile list
-|-----
| Profile | VM Driver | Runtime | IP | Port | Version | Status
 | Nodes | Active |
                -----|----|-----|-----|-----|-----|
|----|--
-1-----1
| multinode-demo | docker | docker | 192.168.49.2 | 8443 | v1.28.3 | Running
2 |
                -----|----|----|----|----|----|
 Found 1 invalid profile(s) !
      minikube
You can delete them using the following command(s):
       $ minikube delete -p minikube
[simarchawla@Simars-MacBook-Air ~ % minikube stop -p multinode-demo
   Stopping node "multinode-demo" ...
   Powering off "multinode-demo" via SSH ...
   Stopping node "multinode-demo-m02" ...
   Powering off "multinode-demo-m02" via SSH ...
   2 nodes stopped.
simarchawla@Simars-MacBook-Air ~ %
```

```
🔃 simarchawla — -zsh — 80×24
| multinode-demo | docker | docker | 192.168.49.2 | 8443 | v1.28.3 | Running
                   - | ----- | ----- |
    Found 1 invalid profile(s) !
        minikube
    You can delete them using the following command(s):
        $ minikube delete -p minikube
[simarchawla@Simars-MacBook-Air ~ % minikube stop -p multinode-demo
   Stopping node "multinode-demo" ...
    Powering off "multinode-demo" via SSH ...
   Stopping node "multinode-demo-m02" ...
    Powering off "multinode-demo-m02" via SSH ...
    2 nodes stopped.
[simarchawla@Simars-MacBook-Air ~ % minikube delete --all
    Deleting "multinode-demo" in docker ...
    Removing /Users/simarchawla/.minikube/machines/multinode-demo ...
    Removing /Users/simarchawla/.minikube/machines/multinode-demo-m02 ...
   Removed all traces of the "multinode-demo" cluster.
    Failed to stop ssh-agent process: failed loading config: cluster "minikube"
does not exist
   Removed all traces of the "minikube" cluster.
    Successfully deleted all profiles
simarchawla@Simars-MacBook-Air ~ %
```

```
Use "kubectl <command> ——help" for more information about a given command.
Use "kubectl options" for a list of global command—line options (applies to all commands).
simarchawla@Simars—MacBook—Air lab3 % ls
         ReplicaSet.yaml hello.yaml
     Replicaset.yamt hetto.yami
simarchawla@Simars-MacBook-Air lab3 % kubectl apply -f ReplicaSet.yaml
The connection to the server localhost:8080 was refused - did you specify the right host or port?
simarchawla@Simars-MacBook-Air lab3 % minikube start
minikube v1.32.0 on Darwin 14.2.1 (arm64)
Automatically selected the docker driver
Using Docker Desktop driver with root privileges
Starting control plane node minikube in cluster minikube
                                   Pulling base image ...
                                  Creating base image ...

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

Executing "docker ps -a --format {{.Names}}" took an unusually long time: 3.079528333s

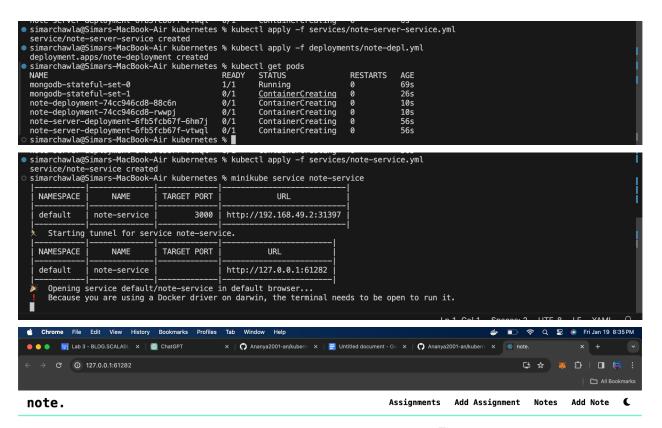
Restarting the docker service may improve performance.

Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
                                     ■ Generating certificates and keys ...
       ■ Generating certificates and keys ...
■ Booting up control plane ...
■ Configuring RBAC rules ...
② Configuring bridge CNI (Container Networking Interface) ...
■ Verifying Kubernetes components...
■ Using image gcr.io/k8s-minikube/storage-provisioner:v5
■ Enabled addons: storage-provisioner, default-storageclass
③ Done! kubectl is now configured to <u>use</u> "minikube" cluster and "default" namespace by default simarchawla@Simars-MacBook-Air lab3 % kubectl apply -f ReplicaSet.yaml
       replicaset.apps/nginx created simarchawla@Simars-MacBook-Air lab3 %
simarchawla@Simars-MacBook-Air lab3 % kubectl apply -f ReplicaSet.yaml replicaSet.apps/nginx created simarchawla@Simars-MacBook-Air lab3 % kubectl get pods NAWE READY STATUS RESTARTS AGE 9 30s nginx-mbr6h 1/1 Running 0 30s nginx-mbr6h 1/1 Running 0 30s simarchawla@Simars-MacBook-Air lab3 % kubectl delete pod nginx-d67jl zsh: command not found: kuectl simarchawla@Simars-MacBook-Air lab3 % kubectl delete pod nginx-d67jl pod "nginx-d67jl deleted simarchawla@Simars-MacBook-Air lab3 % kubectl delete pod nginx-mbr6h pod "nginx-mbr6h" deleted simarchawla@Simars-MacBook-Air lab3 % kubectl delete pod nginx-mrdpq pod "nginx-mbr6h" deleted simarchawla@Simars-MacBook-Air lab3 % kubectl delete pod nginx-mrdpq pod "nginx-mbr6h" deleted simarchawla@Simars-MacBook-Air lab3 % kubectl get pods NAWE READY STATUS RESTARTS AGE NGINx-m6xjj 1/1 Running 0 11s nginx-m6xjk 1/1 Running 0 23s nginx-mgtsk 1/1 Running 0 48s simarchawla@Simars-MacBook-Air lab3 % simarchawla@Simars-MacBook-Air lab3 
                                                                                        TAMMINION OF THE PROPERTY OF T
  simarchawla@Simars-MacBook-Air lab3 % kubectl apply -f StatefulSet.yaml deployment.apps/nginx-deployment created simarchawla@Simars-MacBook-Air lab3 % kubectl get statefulsets No resources found in default namespace.

Simarchawla@Simars-MacBook-Air lab3 % kubectl get pods NAME READY STATUS RESTARTS AGE Nginx-deployment-86dcfdf4c6-jkSlj 1/1 Running 0 35s nginx-deployment-86dcfdf4c6-plyxm 1/1 Running 0 20s nginx-deployment-86dcfdf4c6-plyxm 1/1 Running 0 20s nginx-deployment-86dcfdf4c6-plyxm 1/1 Running 0 21s simarchawla@Simars-MacBook-Air lab3 % kubectl get deployments NAME READY UP-TO-DATE AVAILABLE AGE nginx-deployment 3/3 3 60s simarchawla@Simars-MacBook-Air lab3 % $\bigselef{TimeSimars}$

    simarchawla@Simars-MacBook-Air kubernetes-demo % cd kubernetes
    simarchawla@Simars-MacBook-Air kubernetes % kubectl apply -f secrets/mongodb-secret.yml secret/mongodb-secret unchanged

       simarchawla@Simars—MacBook—Air kubernetes % kubectl apply -f stateful-sets/mongodb-stateful-set.yml statefulset.apps/mongodb-stateful-set created simarchawla@Simars—MacBook—Air kubernetes % kubectl apply -f services/mongodb-service.yml
       service/mongodb-service created simarchawlagSimars-MacBook-Air kubernetes % kubectl apply -f deployments/note-server-depl.yml deployment.apps/note-server-deployment created simarchawlagSimars-MacBook-Air kubernetes % kubectl get pods
                                                                                                                                                                                                                                                                                           READY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESTARTS
         mongodb-stateful-set-0
                                                                                                                                                                                                                                                                                          0/1
0/1
                                                                                                                                                                                                                                                                                                                                               ContainerCreating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19s
        note-server-deployment-6fb5fcb67f-6hm7j 0/1
note-server-deployment-6fb5fcb67f-vtwql 0/1
simarchawla@Simars-MacBook-Air kubernetes %
                                                                                                                                                                                                                                                                                                                                                ContainerCreating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6s
                                                                                                                                                                                                                                                                                                                                                ContainerCreating
```



Important Assignments



