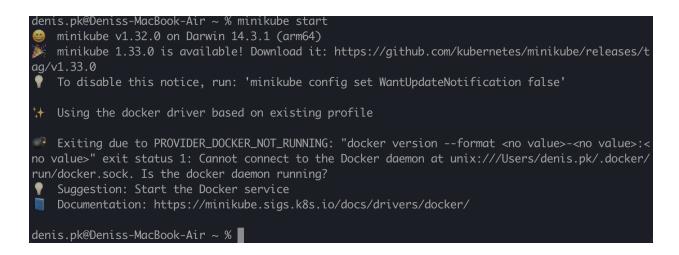
## **Kubernetes Lab**

## **Create a Cluster**

Here we are starting Kubernetes on our machine. Before running any commands we need to ensure that our docker application is running first. Then we can run the following command:

minikube start

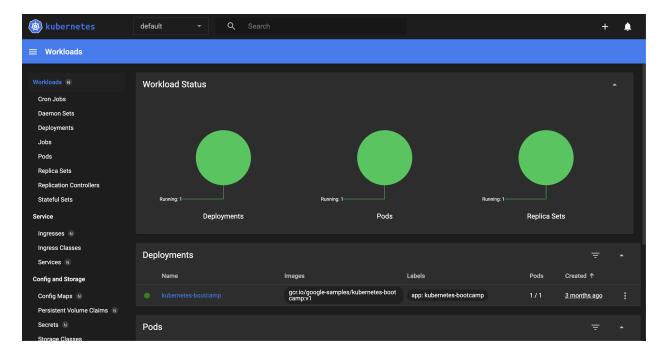


In a separate tab we will run the following command to start the minikube dashboard

minikube dashboard

Kubernetes Lab





## **Deploy an App**

When we run the following command, we are creating our deployment cluster:

kubectl create deployment hello-node --image=registry.k8s.io/e2@

denis.pk@Deniss-MacBook-Air ~ % kubectl create deployment hello-node --image= registry.k8s.io/e2e-test-images/agnhost:2.39 -- /agnhost netexec --http-port= 8080

deployment.apps/hello-node created

In order to view our deployment, we can run the following command:

kubectl get deployments

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```
denis.pk@Deniss-MacBook-Air ~ % kubectl get deployments
NAME READY UP-TO-DATE AVAILABLE AGE
hello-node 1/1 1 1 75s
```

To view our pod we can run the following command:

```
kubectl get pods
```

```
denis.pk@Deniss-MacBook-Air ~ % kubectl get pods
NAME READY STATUS RESTARTS AGE
hello-node-ccf4b9788-hw9q9 1/1 Running 0 6m23s
```

Running the following command shows us the application logs for a container in a pod:

```
kubectl logs hello-node-ccf4b9788-hw9q9
```

## **Explore Your App**

**Expose Your App Publicly** 

Scale Your App

**Update Your App** 

Kubernetes Lab 3