#### **KUBERNETES ASSIGNMENT 1**

# Exercise 1: Deploy an Nginx pod

# **Step 1: Start a Kubernetes cluster (Minikube or other cluster):**

minikube start

### Step 2: Create an Nginx pod:

kubectl run nginx-pod --image=nginx --restart=Never

# **Step 3: Verify the pod is running:**

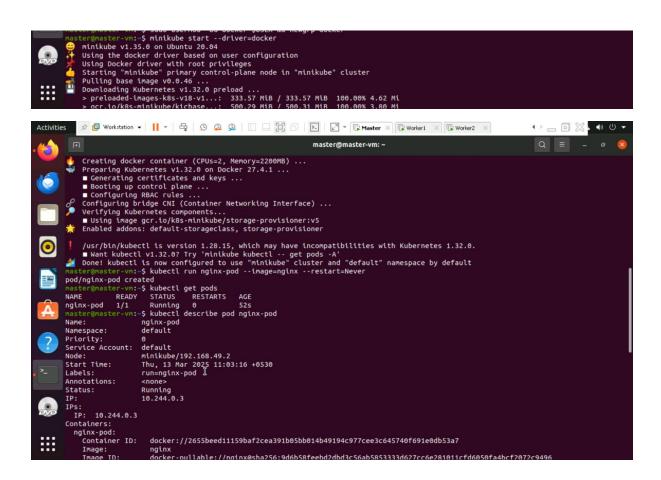
kubectl get pods

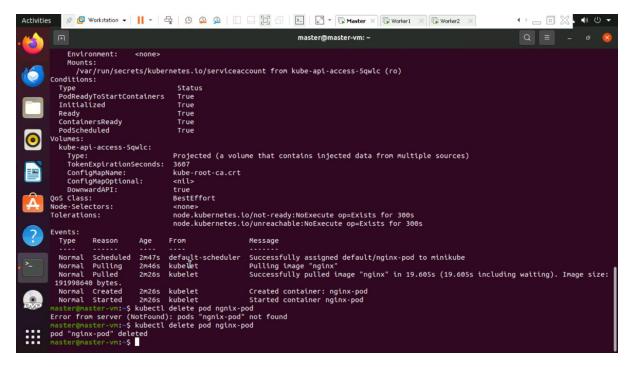
# Step 4: Check pod details:

kubectl describe pod nginx-pod

# **Step 5: Delete the pod:**

kubectl delete pod nginx-pod





Exercise – 2: Create an Nginx Deployment and scale it.

### **Step 1: Create a deployment with Nginx:**

kubectl create deployment nginx-deployment --image=nginx

# **Step 2: Check the deployment:**

kubectl get deployments

#### Step 3: Scale the deployment to 3 replicas:

kubectl scale deployment nginx-deployment --replicas=3

# **Step 4:Check the running pods:**

kubectl get pods -o wide

# **Step 5: Delete the deployment:**

kubectl delete deployment nginx-deployment

```
master@master-vm:-$ kubectl create deployment nginx-deployment --image=nginx deployment.apps/nginx-deployment created naster@master.vm:-$ kubectl get deployments

NAME READY UP-TO-DATE AVAILABLE AGE nginx-deployment 1/1 1 63s naster@master.vm:-$ kubectl scale deployment nginx-deployment --replica=3 error: unknown flag: --replica see 'kubectl scale --help' for usage. naster@master.vm:-$ kubectl scale deployment nginx-deployment --replicas=3 deployment.aeployment scaled naster@master.vm:-$ kubectl get pods -o wide nginx-deployment-6cfb98644c-26p5v 1/1 Running 0 30m15s 10.244.0.4 minitube <none> <none> <none> nginx-deployment-6cfb98644c-vmdd 1/1 Running 0 80s 10.244.0.5 minitube <none> <none> <none> nginx-deployment-6cfb98644c-vmdd 1/1 Running 0 80s 10.244.0.5 minitube <none> <none> <none> nginx-deployment-apps "nginx-deployment" deleted naster@master-vm:-$ kubectl deleted deployment nginx-deployment deleted naster@master-vm:-$
```