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
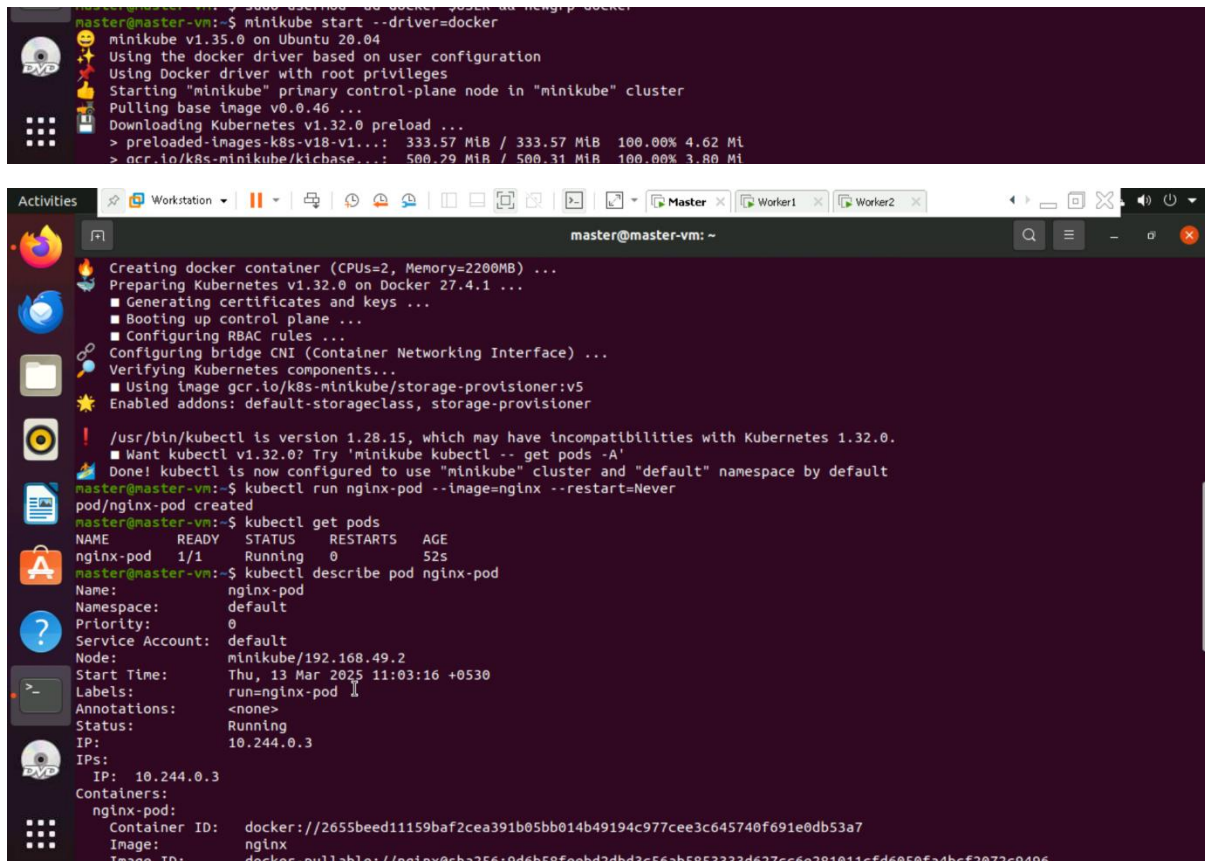
Step 3: Verify the pod is running:

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