#### **KUBERNETES ASSIGNMENT 2**

#### Exercise 1: Create a Pod using a YAML Manifest

**Step 1: Create a YAML file (nginx-pod.yaml):** 

# **Step 2: Apply the YAML file:**

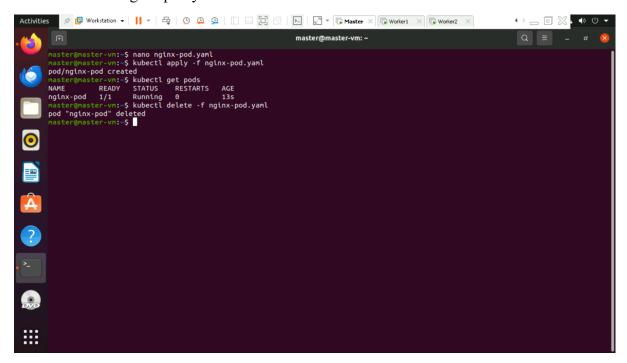
kubectl apply -f nginx-pod.yaml

## Step 3: Check if the pod is running:

kubectl get pods

### **Step 4: Delete the pod using YAML:**

kubectl delete -f nginx-pod.yaml



#### Exercise 2: Create and Use a ConfigMap

#### Step 1: Create a ConfigMap:

kubectl create configmap app-config --from-literal=APP ENV=production

#### **Step 2: Verify ConfigMap:**

kubectl get configmaps app-config -o yaml

## Step 3: Create a pod that uses the ConfigMap (nginx-config-pod.yaml):

#### **Step 4: Deploy the pod:**

kubectl apply -f nginx-config-pod.yaml

## **Step 5: Check if the pod is running:**

kubectl get pods

## **Step 6: Delete the pod and ConfigMap:**

kubectl delete -f nginx-config-pod.yaml

kubectl delete configmap app-config

```
master@master-vm:-$ kubectl create configmap app-config --from-literal=APP_ENV=production configmap/app-config created napiversion: v1 data:

APP_ENV: production kind: ConfigMap netadata: creationTimestamp: "2025-03-13T10:02:522" name: app-config namespace: default resourceVersion: "13808" uid: 6522f51a-6699-4a62-9bca-4494581341fa naster@master-vm:-$ nano nginx-config-pod.yaml naster@master-vm:-$ kubectl apply -f nginx-config-pod.yaml pod/nginx-config-pod (created naster@master-vm:-$ kubectl apply -f nginx-config-pod.yaml pod/nginx-config-pod [created naster@master-vm:-$ kubectl get pods NAME READY STATUS RESTARTS AGE nginx-config-pod 1/1 Running 0 10s naster@master-vm:-$ kubectl delete -f nginx-config-pod.yaml pod "nginx-config-pod deleted naster@master-vm:-$ kubectl delete -f nginx-config-pod.yaml pod "nginx-config-pod deleted naster@master-vm:-$ kubectl delete configmap app-config configmap "app-config" deleted naster@master-vm:-$ kubectl delete configmap app-config configmap "app-config" deleted naster@master-vm:-$ kubectl deleted naster@master-vm:-$ kub
```