**Step 1 - Creating a configuration file for a Pod that has two labels**

Environment: production

app: niginx

**Create a YAML File adding the Labels**

**vi pod-label.yaml**

apiVersion: v1

kind: Pod

metadata:

name: label-demo

labels:

environment: production

app: nginx

spec:

containers:

- name: nginx

image: nginx

ports:

- containerPort: 80

kubectl create -f pod-label.yaml

kubectl get pods

kubectl get pods -o wide

**Validate pods with the labels defined above**

kubectl get pods -l environment=production,app=nginx

**Step 2 - Deploy a Pod in a specific Node based on a Label selector**

**Create a Label for Node Worker-2 of Disktype=ssd**

kubectl label nodes worker-2 disktype=ssd

kubectl get nodes --show-labels

**Create YAML File**

**vi pod-node-selector.yaml**

apiVersion: v1

kind: Pod

metadata:

name: nginx

labels:

env: test

spec:

containers:

- name: nginx

image: nginx

imagePullPolicy: IfNotPresent

nodeSelector:

disktype: ssd

kubectl create -f pod-node-selector.yaml

**Step 3 - Validate Pod is running in designated Node**

kubectl get pods -o wide

**Step 4 - Delete Pod**

kubectl delete pods nginx