Module 4: Expose App, Scale App and Update App

DEMO-2

edureka!

DEMO Steps:

1. List all the pods in the including their names

   Command: kubectl get pods –show-labels

   ```
   edureka@kmaster:~$ kubectl get pods --show-labels
   NAME                              READY   STATUS    RESTARTS   AGE    LABELS
   nginx-deployment-67594d6bf6-crbg9  1/1    Running   0          12m    app=nginx,pod-template-hash=2315082692
   nginx-deployment-67594d6bf6-hl98c  1/1    Running   0          12m    app=nginx,pod-template-hash=2315082692
   ```

2. To add a label to a pod

   Command: kubectl label pods podName label=value

   ```
   edureka@kmaster:~$ kubectl label  pods nginx-deployment-67594d6bf6-2z7zm dev=kube-edu
   pod/nginx-deployment-67594d6bf6-2z7zm labeled
   ```

3. Labels can be used to query required pods

   Command: kubectl describe pod -l <label and parameter>

   ```
   edureka@kmaster:~$ kubectl describe pod -l dev=kube-edu
   Name:              nginx-deployment-67594d6bf6-2z7zm
   Namespace:         default
   Priority:          0
   PriorityClassName: <none>
   Node:              knode/192.168.56.102
   Start Time:        Fri, 20 Jul 2018 17:26:43 +0530
   Labels:            app=nginx
                      dev=kube-edu
                      pod-template-hash=2315082692
   Annotations:       <none>
   Status:            Running
   IP:                192.168.177.204
   Controlled By:     ReplicaSet/nginx-deployment-67594d6bf6
   ```

   This also serves as an example for equity base selector

4. To execute a Set-based selector

   Command: kubectl get pods -l 'label in (labelValue(s))'

   ```
   edureka@kmaster:~$ kubectl get pods -l 'dev in (kube,kube-edu)'
   NAME                              READY   STATUS    RESTARTS   AGE
   nginx-deployment-67594d6bf6-2z7zm  1/1    Running   0          7h
   nginx-deployment-67594d6bf6-kq7cc  1/1    Running   0          2h
   nginx-deployment-67594d6bf6-qxhj2  1/1    Running   0          7h
   ```