## Module 5: Managing State with Deployments

DEMO-5

## edureka!



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## **DEMO Steps:**

Taints and tolerations:

1. List all the nodes you have in your cluster

Syntax: kubectl get nodes

```
ubuntu@kmaster:~$ kubectl get nodes
NAME
                                                                 AGE
                                                                       VERSION
                                              STATUS
                                                        ROLES
                                                                       v1.10.6
ip-172-20-37-223.us-east-2.compute.internal
                                              Ready
                                                        master
                                                                 9m
                                                                       v1.10.6
ip-172-20-39-238.us-east-2.compute.internal
                                              Ready
                                                                 7m
                                                        node
ip-172-20-47-125.us-east-2.compute.internal
                                                                 7m
                                                                       v1.10.6
                                              Ready
                                                        node
```

2. Now, taint one of the nodes with color=red and the other one with color=blue

Syntax: kubectl taint nodes <node-name> <label-key>=<label-value>:Effect

ubuntu@kmaster:~\$ kubectl taint nodes ip-172-20-39-238.us-east-2.compute.internal color=red:NoSchedule node/ip-172-20-39-238.us-east-2.compute.internal tainted ubuntu@kmaster:~\$ kubectl taint nodes ip-172-20-47-125.us-east-2.compute.internal color=blue:NoSchedule node/ip-172-20-47-125.us-east-2.compute.internal color=blue:NoSchedule

3. Schedule two separate pods having color toleration red and blue

```
apiVersion: v1
kind: Pod
metadata:
  name: pod1
  labels:
    app: nginx
spec:
  tolerations:
  - key: "color"
    operator: "Equal"
    value: "red"
  containers:
  - name: nginx
    image: nginx:1.7.9
    ports:
      - containerPort: 80
```

```
ubuntu@kmaster:~$ vi podl.yaml
ubuntu@kmaster:~$ vi pod2.yaml
ubuntu@kmaster:~$ kubectl create -f podl.yaml
pod/podl created
ubuntu@kmaster:~$ kubectl create -f pod2.yaml
pod/pod2 created
```

4. Check where the pods are scheduled

Syntax: kubectl get pods -o wide

ubuntu@kmaster:~\$ kubectl get pods -o wide						
NAME	READY	STATUS	RESTARTS	AGE	IP	NODE
httpd-fcdb8b4d8-bsd4x	1/1	Running		24m	100.96.1.2	ip-172-20-47-125.us-east-2.compute.internal
httpd-fcdb8b4d8-h2jnl	1/1	Running		24m	100.96.1.8	ip-172-20-47-125.us-east-2.compute.internal
httpd-fcdb8b4d8-qhh2d	1/1	Running		24m	100.96.1.4	ip-172-20-47-125.us-east-2.compute.internal
podl	1/1	Running	0	1m	100.96.2.3	ip-172-20-39-238.us-east-2.compute.internal
pod2	1/1	Running	0	1m	100.96.1.9	ip-172-20-47-125.us-east-2.compute.internal

