**Step 1 - Creating a Deployment**

**Create a YAML File for a Deployment containing 5 replicas**

**vi deployment.yaml**

apiVersion: apps/v1

kind: Deployment

metadata:

name: nginx-deployment

labels:

app: nginx

spec:

replicas: 5

selector:

matchLabels:

app: nginx

template:

metadata:

labels:

app: nginx

spec:

containers:

- name: nginx

image: nginx:1.14.2

ports:

- containerPort: 80



**Validate the Deployment and NGINX version 1.14.2**

kubectl get deployment

kubectl describe deployment

**Step 2 - Update a deployment with NGINX Image 1.16.1**

kubectl --record deployment.apps/nginx-deployment set image deployment.v1.apps/nginx-deployment nginx=nginx:1.16.1

**Validate the deployment**

kubectl describe deployment

**Step 3 - Rollback a Deployment**

kubectl rollout undo deployment.v1.apps/nginx-deployment

**Validate version of NGINX Image**

kubectl describe deployments

**Step 4 - Scale deployment from YAML File, change replica from 5 to 10**

**vi deployment.yaml**

apiVersion: apps/v1

kind: Deployment

metadata:

name: nginx-deployment

labels:

app: nginx

spec:

replicas: 10

selector:

matchLabels:

app: nginx

template:

metadata:

labels:

app: nginx

spec:

containers:

- name: nginx

image: nginx:1.14.2

ports:

- containerPort: 80

kubectl apply -f deployment.yaml

**Valide running Pods**

kubectl get pods -o wide



**Step 5 - Scale deployment from Kubectl**

kubectl scale deployment.v1.apps/nginx-deployment --replicas=15

Kubectl get deployments

**Validate running pods**

Kubectl get pods -o wide

**Step 6 - Delete Deployment**

Kubectl delete deployment nginx-deployment