kubectl get replicasets

**Create a Deployment file**

vim deployment.yaml

**apiVersion: apps/v1**

**kind: Deployment**

**metadata:**

**name: nginx-deployment**

**labels:**

**app: nginx**

**spec:**

**replicas: 3**

**selector:**

**matchLabels:**

**app: nginx**

**template:**

**metadata:**

**labels:**

**app: nginx**

**spec:**

**containers:**

**- name: nginx**

**image: nginx:1.7.8**

**ports:**

**- containerPort: 80**

Deployment > replicasets > >> will manage desired number of PODS

**Deploy the resources**

kubectl create -f deployment.yaml

kubectl get replicasets

kubectl expose deployment nginx-deployment --type="NodePort"

kubectl get pods

NAME READY STATUS RESTARTS AGE

nginx-deployment-64bb5667f-7p74g 1/1 Running 0 2m

nginx-deployment-64bb5667f-gb9fs 1/1 Running 0 2m

nginx-deployment-64bb5667f-h7f2p 1/1 Running 0 2m

kubectl describe pods -

Notes :

Controlled By: ReplicaSet/nginx-deployment-9dfcd7d77

Observer see the verison of images used : 1.7.8

kubectl rollout history deployment nginx-deployment

kubectl get replicaset

**Upgrade**

Let’s update the nginx Pods to use the **nginx:1.7.9** image instead of the **nginx:1.7.8** image.

**kubectl set image deployment nginx-deployment nginx=nginx:1.7.9**

kubectl rollout history deployment nginx-deployment

kubectl get pods

NAME READY STATUS RESTARTS AGE

nginx-deployment-9dfcd7d77-k7z5l 1/1 Running 0 1m

nginx-deployment-9dfcd7d77-nfx4q 1/1 Running 0 1m

nginx-deployment-9dfcd7d77-prc9h 1/1 Running 0 1m

kubectl describe pods nginx-deployment-9dfcd7d77-k7z5l

notice the image updated from nginx:1.7.8 to 1.7.9

kubectl get rs

NAME DESIRED CURRENT READY AGE

nginx-deployment-64bb5667f 3 3 3 4m

nginx-deployment-9dfcd7d77 0 0 0 13m

kubectl rollout undo deployment nginx-deployment

kubectl get rs

NAME DESIRED CURRENT READY AGE

nginx-deployment-64bb5667f 0 0 0 5m

nginx-deployment-9dfcd7d77 3 3 3 14m

kubectl get pods

NAME READY STATUS RESTARTS AGE

nginx-deployment-9dfcd7d77-4jkz5 1/1 Running 0 59s

nginx-deployment-9dfcd7d77-8xgg2 1/1 Running 0 58s

nginx-deployment-9dfcd7d77-qcpp6 1/1 Running 0 59s

notice rolled back to nginx:1.7.8

kubectl rollout history deployment nginx-deployment