**Rollback Deployment**

**Step-00: Introduction**

* We can rollback a deployment in two ways.
  + Previous Version
  + Specific Version

**Step-01: Rollback a Deployment to previous version**

**Check the Rollout History of a Deployment**

# List Deployment Rollout History

kubectl rollout history deployment/<Deployment-Name>

kubectl rollout history deployment/my-first-deployment

**Verify changes in each revision**

* **Observation:** Review the "Annotations" and "Image" tags for clear understanding about changes.

# List Deployment History with revision information

kubectl rollout history deployment/my-first-deployment --revision=1

kubectl rollout history deployment/my-first-deployment --revision=2

kubectl rollout history deployment/my-first-deployment --revision=3

**Rollback to previous version**

* **Observation:** If we rollback, it will go back to revision-2 and its number increases to revision-4

# Undo Deployment

kubectl rollout undo deployment/my-first-deployment

# List Deployment Rollout History

kubectl rollout history deployment/my-first-deployment

**Verify Deployment, Pods, ReplicaSets**

kubectl get deploy

kubectl get rs

kubectl get po

kubectl describe deploy my-first-deployment

**Access the Application using Public IP**

* We should see Application Version:V2 whenever we access the application in browser

# Get Load Balancer IP

kubectl get svc

# Application URL

http://<External-IP-from-get-service-output>

**Step-02: Rollback to specific revision**

**Check the Rollout History of a Deployment**

# List Deployment Rollout History

kubectl rollout history deployment/<Deployment-Name>

kubectl rollout history deployment/my-first-deployment

**Rollback to specific revision**

# Rollback Deployment to Specific Revision

kubectl rollout undo deployment/my-first-deployment --to-revision=3

**List Deployment History**

* **Observation:** If we rollback to revision 3, it will go back to revision-3 and its number increases to revision-5 in rollout history

# List Deployment Rollout History

kubectl rollout history deployment/my-first-deployment

**Access the Application using Public IP**

* We should see Application Version:V3 whenever we access the application in browser

# Get Load Balancer IP

kubectl get svc

# Application URL

http://<Load-Balancer-IP>

**Step-03: Rolling Restarts of Application**

* Rolling restarts will kill the existing pods and recreate new pods in a rolling fashion.

# Rolling Restarts

kubectl rollout restart deployment/<Deployment-Name>

kubectl rollout restart deployment/my-first-deployment

# Get list of Pods

kubectl get po