**Pause & Resume Deployments**

**Step-00: Introduction**

* Why do we need Pausing & Resuming Deployments?
  + If we want to make multiple changes to our Deployment, we can pause the deployment make all changes and resume it.
* We are going to update our Application Version from **V3 to V4** as part of learning "Pause and Resume Deployments"

**Step-01: Pausing & Resuming Deployments**

**Check current State of Deployment & Application**

# Check the Rollout History of a Deployment

kubectl rollout history deployment/my-first-deployment

Observation: Make a note of last version number

# Get list of ReplicaSets

kubectl get rs

Observation: Make a note of number of replicaSets present.

# Access the Application

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

Observation: Make a note of application version

**Pause Deployment and Two Changes**

# Pause the Deployment

kubectl rollout pause deployment/<Deployment-Name>

kubectl rollout pause deployment/my-first-deployment

# Update Deployment - Application Version from V3 to V4

kubectl set image deployment/my-first-deployment kubenginx=stacksimplify/kubenginx:4.0.0 --record=true

# Check the Rollout History of a Deployment

kubectl rollout history deployment/my-first-deployment

Observation: No new rollout should start, we should see same number of versions as we check earlier with last version number matches which we have noted earlier.

# Get list of ReplicaSets

kubectl get rs

Observation: No new replicaSet created. We should have same number of replicaSets as earlier when we took note.

# Make one more change: set limits to our container

kubectl set resources deployment/my-first-deployment -c=kubenginx --limits=cpu=20m,memory=30Mi

**Resume Deployment**

# Resume the Deployment

kubectl rollout resume deployment/my-first-deployment

# Check the Rollout History of a Deployment

kubectl rollout history deployment/my-first-deployment

Observation: You should see a new version got created

# Get list of ReplicaSets

kubectl get rs

Observation: You should see new ReplicaSet.

# Get Load Balancer IP

kubectl get svc

**Access Application**

# Access the Application

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

Observation: You should see Application V4 version

**Step-02: Clean-Up**

# Delete Deployment

kubectl delete deployment my-first-deployment

# Delete Service

kubectl delete svc my-first-deployment-service

# Get all Objects from Kubernetes default namespace

kubectl get all