**Lesson 5 Demo 2**

**Rollout**

**Objective:** To switch the Deployment image versions via rollout

**Tools required:** kubeadm, kubectl, kubelet, and etcd

**Prerequisites:** A Kubernetes cluster must be set up (follow steps of Lesson 2 Demo 1)

Steps to be followed:

1. Creating a Deployment
2. Upgrading the image version
3. Switching back to the old version

**Step 1: Creating a Deployment**

1. Write the following code in the **ghost.yaml** file:

**apiVersion: apps/v1**

**kind: Deployment**

**metadata:**

**annotations:**

**kubernetes.io/change-cause: kubectl run mydep --image=ghost:0.9 --record=true**

**--dry-run=true --output=yaml**

**creationTimestamp: null**

**labels:**

**run: mydep**

**name: mydep**

**spec:**

**replicas: 1**

**selector:**

**matchLabels:**

**run: mydep**

**strategy: {}**

**template:**

**metadata:**

**creationTimestamp: null**

**labels:**

**run: mydep**

**spec:**

**containers:**

**- image: ghost:0.9**

**name: mydep**

**resources: {}**

**status: {}**

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1. Create a **Deployment** to rollout the version.

**kubectl create -f ghost.yaml**

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The Deployment has been created successfully.

**Step 2: Upgrading the image version**

1. Check the **Deployment** rollout history using the following command:

**kubectl rollout history deployment/mydep**

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1. Upgrade the Deployment **mydep** image version to **0.10**.

**kubectl set image deployment/mydep mydep=ghost:0.10 –record**

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1. Verify the **mydep** rollout history using the following command:

**kubectl rollout history deployment/mydep**

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The image version of **mydep** has been upgraded to **0.10**.

**Step 3: Switching back to the old version**

1. Run the following command to revert to the initial version of **mydep** Deployment:

**kubectl rollout undo deployment/mydep --to-revision=1**

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| --- |
| Note: The **Deployment** image version has been returned to its original state. |