Exercise - Deploy

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01

Create a new deployment called myproject, with image nginx:1.16 and 1 replica.

Next upgrade the deployment to version 1.17 using rolling update

Make sure that the version upgrade is recorded in the resource annotation.

```
controlplane $ k create deployment myproject --image=nginx:1.16 --replicas=1
deployment.apps/myproject created
controlplane $
controlplane $ k get deployments.apps
           READY UP-TO-DATE AVAILABLE
                                            AGE
                   1
myproject 1/1
                                1
                                            235
controlplane $
controlplane $ kubectl set image deployment/myproject nginx=nginx:1.17 --record
Flag --record has been deprecated, --record will be removed in the future
deployment.apps/myproject image updated
controlplane $
controlplane $ kubectl rollout history deployment/myproject
deployment.apps/myproject
REVISION CHANGE-CAUSE
1
          <none>
2
         kubectl set image deployment/myproject nginx=nginx:1.17 --record=true
controlplane $
```

Create a deployment of nginx with the image of nginx of version 1.18-alpine. Now upgrade the version to 1.19-alpine and record it. Now roll back the deployment to the previous version.

```
controlprane >
controlplane $ k create deployment deploy-nginx --image=nginx:1.18-alpine
deployment.apps/deploy-nginx created
controlplane $
controlplane $ k get deployments.apps
              READY UP-TO-DATE AVAILABLE
NAME
                                                AGE
deploy-nginx 1/1
                       1
                                    1
                                                19s
controlplane $
controlplane $
controlplane $
controlplane $ kubectl set image deployment/deploy-nginx nginx=nginx:1.19-alpine --record
Flag --record has been deprecated, --record will be removed in the future
deployment.apps/deploy-nginx image updated
controlplane $
controlplane $
controlplane $ kubectl rollout undo deployment/deploy-nginx --record
error: unknown flag: --record
See 'kubectl rollout undo --help' for usage.
controlplane $ kubectl rollout undo deployment/deploy-nginx
deployment.apps/deploy-nginx rolled back
controlplane $
controlplane $ k rollout history deployment/deploy-nginx
deployment.apps/deploy-nginx
REVISION CHANGE-CAUSE
          kubectl set image deployment/deploy-nginx nginx=nginx:1.19-alpine --record=true
2
          <none>
controlplane $
controlplane $ k describe deployments.apps deploy-nginx
Name:
                       deploy-nginx
                        default
Namespace:
CreationTimestamp:
                       Sat, 21 Sep 2024 04:03:34 +0000
Labels:
                        app=deploy-nginx
                        deployment.kubernetes.io/revision: 3
Annotations:
                       app=deploy-nginx
Selector:
                        1 desired | 1 updated | 1 total | 1 available | 0 unavailable
Replicas:
StrategyType:
                       RollingUpdate
MinReadySeconds:
                       0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
  Labels: app=deploy-nginx
  Containers:
   nginx:
    Image:
                   nginx:1.18-alpine
    Dont.
    Host Port:
                   <none>
```