

CKA/CKAD : Complete Certification Guide

Deployment Rolling Update and RollBack



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- **Deployment**: Deploy Fresh Deployment using Config File or Imperative Cmd.

```
kubectl apply -f rolling-update-deployment.yml
```

```
deployment.apps/redis-deployment created
```

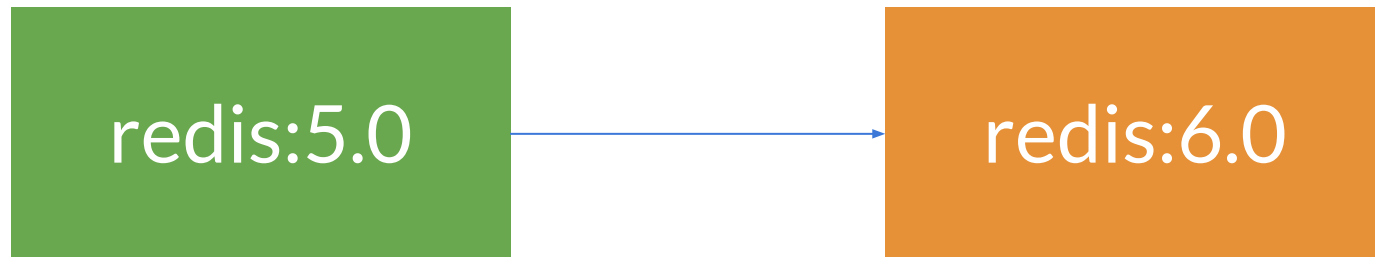
```
kubectl get deploy redis-deployment -o wide
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE	CONTAINERS	IMAGES	SELECTOR
redis-deployment	10/10	10	10	8m4s	redis-container	redis:5.0	app=redis

```
anshul@Anshuls-MacBook ~>
```

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- **Upgrade Application** : Upgrade Application to Next version.



Application Upgrade

```
graph TD; A[Application Upgrade] --> B[Declarative]; A --> C[Imperative];
```

Declarative

```
...  
containers:  
- name: redis-container  
  image: redis:6.0  
...
```

```
kubectl apply -f rolling-update-deployment.yml
```

Imperative

```
kubectl set image deployment redis-deployment  
redis-container=redis:6.0 --record
```

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- **Deployment Upgrade:** Identify Deployment Rollout Status.

```
kubectl rollout status deployment redis-deployment
```

```
Waiting for deployment "redis-deployment" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "redis-deployment" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "redis-deployment" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "redis-deployment" rollout to finish: 8 out of 10 new replicas have been updated...
```

```
kubectl rollout history deployment redis-deployment
```

```
deployment.apps/redis-deployment
REVISION  CHANGE-CAUSE
1         kubectl create --filename=/Users/anshul/CKAD/Application Deployment (20%)/Deployment/rolling-update-deployment.yml --record=true
2         kubectl set image deployment redis-deployment redis-container=redis:6.0 --record=true
```

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- **Deployment Rollback**: Rollback Deployment to previous status.

```
kubectl rollout undo deployment redis-deployment
```

```
deployment.apps/redis-deployment rolled back  
anshul@Anshuls-MacBook ~> █
```

```
kubectl rollout undo deployment redis-deployment --to-revision=2
```

```
deployment.apps/redis-deployment rolled back  
anshul@Anshuls-MacBook ~> █
```

Thank You...

Don't be the Same! Be Better!!!
