# Deployment Pause

1. Pause your deployment imperatively.
2. Update the deployment imperatively:
   * set container image to nginx:1.19.3
   * set limits to cpu=200m,memory=100Mi
   * provide a change cause
3. Resume your deployment.
4. Check the history of rollout (you must see only one new revision)

## Solution

1. Pause your deployment imperatively.

$ kubectl rollout pause deployment/nginx-deployment  
deployment.apps/nginx-deployment paused

1. Update the deployment imperatively:
   * set container image to nginx:1.19.3
   * set limits to cpu=200m,memory=100Mi
   * provide a change cause

$ kubectl set image deploy nginx-deployment nginx=nginx:1.19.3  
deployment.apps/nginx-deployment image updated

Deployment will hanging:

$ kubectl rollout status deploy nginx-deployment  
Waiting for deployment "nginx-deployment" rollout to finish: 0 out of 10 new replicas have been updated...  
^C

Do other requiered changes:

$ kubectl set resources deploy nginx-deployment --limits=cpu=200m,memory=512Mi  
deployment.apps/nginx-deployment resource requirements updated  
  
$ kubectl annotate deploy nginx-deployment "kubernetes.io/change-cause=image updated to 1.19.3"  
deployment.apps/nginx-deployment annotated

There is still no changes in history:

$ kubectl rollout history deploy nginx-deployment  
deployment.apps/nginx-deployment  
REVISION CHANGE-CAUSE  
1 <none>  
3 image updated to 1.18.0  
5 image updated to 1.16.1  
6 image updated to 1.19.6

1. Resume your deployment.

$ kubectl rollout resume deploy nginx-deployment  
deployment.apps/nginx-deployment resumed

1. Check the history of rollout (you must see only one new revision)

$ kubectl rollout history deploy nginx-deployment  
deployment.apps/nginx-deployment  
REVISION CHANGE-CAUSE  
1 <none>  
3 image updated to 1.18.0  
5 image updated to 1.16.1  
6 image updated to 1.19.6  
7 image updated to 1.19.3

New revision 7 has appeared.