Standard Operating Procedure

*Restarting an Application*

## PURPOSE

The purpose of this standard operating procedure (SOP) is to provide a detailed step-by-step procedure to restart an application. **In Prod environments, confirm that traffic is removed before following this SOP.**

## PROCEDURE

First, confirm all pods are backed by rc/dc or ds. If a pod does not have the random 5 characters at the end of its name, assume that it is not backed by rc/dc or ds. If it is in Completed state or is a Deploy pod, proceed with restart. If it is running, confirm with App Team on what impact deleting it would bring.

oc get pods -n <project name>

i.e.

[svc-vxby-ose@master01-prod-vxbyr ~]$ oc get pods -n swimlsuite-prod1

NAME READY STATUS RESTARTS AGE

awards-band-calendar-3-2payo 1/1 Running 1 72d

awards-band-calendar-3-d7irw 1/1 Running 1 72d

sna-exit-code 1/1 Running 0 32m

The last pod is not backed by any controller, so once it is deleted, it would have to be manually recreated by the App Team or by some other external process.

Method 1: Scaling down

1. On the master node:

oc project <project name>

oc get dc | grep <app name>

1. Current count of replicas is shown. Remember the current count. Suppose it is 20. First, scale it down to 0:

oc scale dc/<app name> --replicas=0

1. Wait for all application pods to terminate and scale it back up to the original count:

oc scale dc/<app name> --replicas=2

Method 2: Deleting to restart one application using label

oc delete po -l **app**=<label> -n <project name>

Labels (-l) can be obtained by running this command:

oc get pods --show-labels -n <project name> | grep <label>

i.e.

[svc-vxby-ose@master01-prod-vxasr ~]$ oc get pods --show-labels -n ram-prod1 | grep agent

agent-portal-app-17-11pa5 1/1 Running 0 19d app=agent-portal-app,deployment=agent-portal-app-17,deploymentconfig=agent-portal-app

agent-portal-app-17-7avw5 1/1 Running 0 19d app=agent-portal-app,deployment=agent-portal-app-17,deploymentconfig=agent-portal-app

Method 3: Deleting all pods to restart all applications in a project

oc delete po --all -n <project name>

i.e. oc delete pod --all -n ram-prod1

Method 4: Redeploying with the latest dc version

oc deploy dc/<app name> --latest -n <project name>

To check if the dc version is the latest:

oc get dc -n <project name> | grep <app prefix>

oc describe dc <app name> -n <project name> | grep Version

Compare two outputs.

i.e.

[svc-vxby-ose@master01-prod-vxasr ~]$ oc get dc -n ram-prodengage1 | grep agent

agent-portal-app 19 2 2 config,image(agent-portal-app:prodld11219)

[svc-vxby-ose@master01-prod-vxasr ~]$ oc describe dc agent-portal-app -n ram-prodengage1 | grep Version

Latest Version: 19

If the outputs are different, get the latest version that matches what is under “Latest Version”.

## VALIDATION

Follow the validation steps in “Procedure”.

**Document Version Control**

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