Standard Operating Procedure

*Pods Not Coming Up Due to Memory Issue*

## PURPOSE

The purpose of this standard operating procedure (SOP) is to provide a detailed step-by-step procedure to fix pods not coming up due to memory issue.

## PROCEDURE

1. Check DC of service and check request memory allotted to pods and limits memory allotted to pods.

oc project <project name>

1. Get the dc of all service Running under project:

oc get dc

1. Describe dc of service which is having issues. Locate request memory and request CPU mentioned in dc:

oc describe dc/<dc of service>

1. Get the project limits of project:

oc get limits

1. Describe limits:

oc describe limits/<limits name>

1. If request memory or CPU defined in dc of application is more than what is allocated in project limits inform application team accordingly.

1. Also, if application is getting killed because there is no more available memory or CPU, check for limits for CPU and memory and inform application team.

oc describe clusterresourcequota/<clusterresourcequota name>

If limits.cpu and limits.memory are touching threshold for lower env, increase limits.

For Prod, get approval for increasing limits on cluster resorce quota.

Pods may not come up if there are insufficient memory and CPU on nodes. In that case cpu.fit failure error would happen.

Pods may also not come up if there is database connectivity issue like if Couchbase server is unreachable.

## VALIDATION

Follow the validation steps in “Procedure”.

**Document Version Control**

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