**EDDPortworx Health Check Reference Document**

DCOS

Login into one of the private/worker nodes from each cluster and run the below mentioned commands to perform portworx health check.

**pxctl status** **** To check the cluster status (if nodes are available in the cluster or not)

**pxctl v l ** To check the volumes in list a particular cluster. We need to do portworx health check only for those volumes which has Snap Enabled as “Yes”.

**pxctl v l -s ** To check the local snapshots all volumes in a particular cluster.

**pxctl v l -s | grep -E “<volume-name or volume-id>” ** To check a single volume snapshots in a particular cluster. (Check all the volumes along with their timestamp that has Snap Enabled as “Yes”)

**pxctl cs status ** To check all the volume cloudsnaps overall status in a cluster

**pxctl cs status | grep -E “Wed, 20 May 2020” ** To check all the volume cloudsnaps in a cluster for a particular date

**pxctl cred l ** To check the credentials list for both Colos for that environment. Eg. If you run this command on a DCOS ITG server you will get the credentials list for both Colo-1 DCOS ITG and CoLo-2 DCOS-ITG along with Minio credentials for both Colos. Please note that currently for DCOS ITG and Prod, portworx cloudsnaps backups are started using Minio so use credentials for Minio while doing healthcheck in case of DCOS ITG and Prod.

**pxctl cs l --cred-id <cred-id> ** To check the cloud snapshots for all volumes in a particular cluster. You need to mention the cred-id for the environment where the backups are getting created. E.g. If you are running this command on Colo2 DCOS ITG server, you need to mention the cred-id for Minio Colo1 DCOS ITG which you will get after running **pxctl cred l** command. Please refer note section below for more details.

**pxctl cs schedules l ** To check list of volumes for which the cloudsnaps are scheduled and the schedule details.

**pxctl cs l --cred-id <cred-id> | grep -E “<volume-name or volume-id>” ** To check volume wise cloudsnap status.

**Note:**

All the ITG and DEV Portworx volumes local backups are scheduled in CoLo-2-DCOS-ITG cluster as it is Primary, except “serviceproxy\_redis\_itg” volume which is using CoLo-1-DC/OS-ITG cluster as primary.

All the DCOS-Portworx ITG volumes cloudsnap backups are started using Minio. For Colo2-DCOS-ITG Portworx volumes cloudsnaps backups will be stored in COLO1-DCOS-PWX-MINIO and all the Colo1-DCOS-ITG Portworx volumes cloudsnaps backups will be stored in COLO2-DCOS-PWX-MINIO.

Clousnap backups for DCOS ITG are scheduled from CoLo-2 DCOS-ITG to CoLo-1 DCOS-ITG except for “serviceproxy\_redis\_itg” for which it is vice versa.

All the DCOS-Portworx PROD volumes cloudsnap backups are scheduled from CoLo-1 DCOS-PROD to CoLo-2 DCOS-PROD-DR

UCP

In Colo1 UCP Prod, we have Jenkins jobs volumes scheduled for backups – *“dindc-core-jenkins\_jobs” and “anchore\_anchore-db-volume”*. We need to run all the below mentioned commands on a worker node in Colo1 UCP Prod to perform portworx healthcheck on them.

**pxctl status**

**pxctl v l**

**pxctl v l -s**

**pxctl cs status**

**pxctl cred l**

**pxctl cs l –cred-id <cred-id for Colo2 UCP>**

Note: Only Daily and Weekly local snapshot and cloudsnap backups will be created for both these portworx volumes. \*No Periodic Backups\*

Currently we have setup the snapshots (local backups) and cloudsnaps (external backups) for Portworx volumes in DCOS only for ITG and PROD clusters. So, except for Colo1 UCP Prod, in all other 3 UCP environments we just need to check the cluster status by running the below command  **pxctl status** and volumes health status with **pxctl v l**

**Portworx Issues**

If any of the portworx volume backup is failed/missing, report it in health check report as usual and take a manual backup with below command

**Local Backup Manually**  pxctl volume snapshot create -name snapshotname volumename

Example for snapshotname: volumename\_dateandtime

**Cloud Backup Manually**  pxctl cs backup --cred-id <cred-id> -f <volume-name>

Additional Troubleshooting Commands

**systemctl status portworx ** To check if portworx service is running on that node

**systemctl start portworx ** To start the portworx service if it is in stopped/inactive state

**systemctl restart portworx ** To restart the portworx service if there is some issue with it

Please send out an email immediately if you find any issues with Portworx local and external backups with error screenshot.

**Portworx Schedule**

Below are the scheduled policies that has been created for Local snapshots, Cloudsnaps to DEV, ITG, and PROD Volumes based on the requirement. Please do the health checks accordingly.

**pxctl sched-policy l ** To check list of snapshots policies.

**pxctl volume inspect <volume-name or volume-id> ** To check all details of a volume.

**pxctl cs schedules l ** To check list of volumes for which the cloudsnaps are scheduled and the schedule details.

SNAPSHOTS policy for Volumes (except Redis):

            Dev - weekly Sunday@23:40,keep last 3, monthly 28@23:40,keep last 1

            ITG - periodic 1h0m0s,keep last 7, daily @23:40,keep last 7, weekly Sunday@23:40,keep last 2

            PROD – periodic 15m0s,keep last 6, daily @23:40,keep last 2, weekly Sunday@23:40,keep last 2

CLOUDSNAPS policy for Volumes (except Redis):

            Dev – daily @23:50, weekly Sunday@23:50  --max 7/each

            ITG – periodic 1h0m0s, weekly Sunday@23:50, daily @23:50 --max 10/each

            PROD – periodic 5m0s, daily @23:50, weekly Sunday@23:50 --max 10/each

SNAPSHOTS policy for Redis Volumes:

            Dev - weekly Sunday@23:59,keep last 3, monthly 28@23:59,keep last 1

            ITG -  daily @23:59,keep last 7, weekly Sunday@23:59,keep last 2

            PROD – periodic 15m0s,keep last 6, daily @23:59,keep last 2, weekly Sunday@23:59,keep last 2

CLOUDSNAPS policy for Redis Volumes:

            Dev – N/A

            ITG - daily @23:59, weekly Sunday@23:59 --max 7/each

            PROD - periodic 5m0s, weekly Sunday@23:59, daily @23:59 --max 7/each

**Official Reference Docs**

<https://docs.portworx.com/reference/cli/create-and-manage-volumes/>

<https://docs.portworx.com/reference/cli/updating-volumes/>

<https://docs.portworx.com/reference/cli/snapshots/>

<https://docs.portworx.com/reference/cli/sched-policy/>

<https://docs.portworx.com/reference/cli/credentials/>

<https://docs.portworx.com/reference/cli/cloud-snaps/>