PORTWORX COMMAND LINE REFERENCE CHEAT SHEET

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PXCTL for Portworx Kubernetes Data Protection

WHAT IS PORTWORX

Portworx provides persistent storage, disaster recovery, data security, cross-cloud and data migrations, and automated capacity management for Kubernetes.

ALIAS FUN

```
$ alias captain='pxctl --help'
$ alias port='pxctl cluster list'
$ alias starboard='pxctl status'
$ alias flank='pxctl volume list'
$ alias stern='pxctl service pool show'
$ alias plank= ‘pxctl snapshot list’
```

PX-STORE

PORTWORX HELP

Description: Help about any command

```
$ /opt/pwx/bin/pxctl --help
$ pxctl --help
```

LICENSE INFORMATION

Description: List available licenses

```
$ pxctl license list
```

VERSION INFORMATION

Description: List cluster node versions

```
$ pxctl --version
```

CLUSTER INFORMATION

Description: List nodes in the cluster

```
$ pxctl cluster list
$ pxctl cluster list --json
```

PORTWORX STATUS

Description: Show status summary

```
$ pxctl status
$ pxctl status --json
$ pxctl status --json > status.json
```

LIST STORAGE POOLS

Description: Show pools

```
$ pxctl service pool show
$ pxctl service pool show --json
```

UPDATE VOLUME

Description: Update volume settings

```
$ pxctl volume update
```

SUBCOMMAND

```
$ pxctl volume update vol1 --shared on
$ pxctl volume update vol1 --size 5
```

SHOW VOLUMES

Description: List volumes in the cluster

```
$ pxctl volume list
$ pxctl volume list --volumes
$ pxctl volume list –label <dev_volume>
```

SHOW VOLUME INFO

Description: List volumes in the cluster

```
$ pxctl volume inspect <vol1>
$ pxctl volume usage <vol1>
```

CREATE VOLUME

Description: Create a volume

```
$ pxctl volume create <vol1>
```

SUBCOMMAND

```
$ pxctl volume create vol1 --io_priority high
$ pxctl volume create vol1 --repl 3 –size 5
$ pxctl volume create vol1 -a 3
```


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MAINTENANCE MODE

Description: Maintenance mode operations

$ pxctl service maintenance --enter

$ pxctl service maintenance --exit

SUBCOMMAND

$ kubectl drain <node01>

$ Kubectl cordon <node01>

ADD NEW DISK

Description: Add storage

$ pxctl service drive add --drive /dev/dm-1 --operation star

$ pxctl service drive add --drive /dev/dm-1 --operation status

REBALANCE POOLS

Description: Rebalance storage

$ pxctl service drive rebalance --poolID0 --operation start

$ pxctl service drive rebalance --poolID0 --operation stop????

EXPAND DRIVE

Description: Update pool properties

$ pxctl service pool update --resize 0

EXPAND POOL

Description:

$ pxctl service pool expand --operations resize-disk --size 1000 --uid 0

SUBCOMMAND

$ pxctl service pool expand --operations add-disk --size 1000 --uid 0

$ pxctl service pool expand --operations auto --size 1000 --uid 0

BACKGROUND SCAN

Description: Background scrub Data Integrity checks

$ pxctl service scan start

$ pxctl service scan status

VOLUME HEALTH

Description: Fix volume errors using Filesystem Check

$ pxctl volume check start —mode chrck_health vol2

FILESYSTEM TRIM

Description: Maintain volumes using Filesystem Trim

$ pxctl volume trim start —path /mnt/pxd/mouth/path vol1

ADD STORAGE LABELS

Description: Update pool properties

$ pxctl service pool update —labels env=dev0

CHANGE IO PRIORITY

Description: Update pool properties

$ pxctl service pool update —io_priority low 0

MOUNT VOLUME

Description: Mount a volume on the host

$ pxctl host mount vol1 —path </var/lib/osd/mounts/demodir>

DETACH VOLUME

Description: Unmount a volume from the host

$ pxctl host unmount <vol1 > —path

$ pxctl host detach <vol1>

CONTAINER LOGS

Description: Portworx container logs

$ kubectl logs -n kube-system -l name=portworx

$ kubetctl -n kube-system exec portworx-12345 -- /opt/pwx/bin/pxctl status

$ journalctl -flu portworx*

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CLUSTER EVENTS

Description: Portworx cluster events

$ kubectl get events --field--selector involvedObject.kind=AutopilotRule

NODE WIPE

Description: Wipes PX configuration data on this node

$ pxctl service node-wipe

CREATE SNAPSHOT

Description: Manage volume snapshots

$ pxctl volume snapshot create --name snap1 <vol1>

$ pxctl cloudsnap backup <vol1>

SHOW SNAPSHOT

Description: List volumes in the cluster

$ pxctl volume list --snapshot

$ pxctl volume list -a

$ pxctl cloudsnap list

DELETE SNAPSHOT

Description: Delete a volume

$ pxctl volume delete <snap1>

RESTORE SNAPSHOT

Description: Restore volume from snapshot

$ pxctl volume restore --snapshot snap1 <vol1>

$ pxctl cloudsnap restore -v <vol1> -s <1234>

SCHEDULE SNAPSHOTS

Description: Create a schedule policy

$ pxctl sched-policy create -d 12:30 <pol1>

$ pxctl sched-policy list

SUBCOMMAND

$ pxctl sched-policy create --weekly Sunday@12:30,3 pol2

$ pxctl volume snap-interval-update —policy <P1> <vol2>

VOLUME ENCRYTION

Description: Sets an existing secret as a cluster-wide

$ pxctl secrets set-cluster-key --secret cluster-wide.key

ROLES

Description: pxctl role

$ pxctl roles create --role-config role.js

SUBCOMMAND

$ pxctl role list

CONTEXTS

Description:

$ pxctl context list

SUBCOMMAND

$ pxctl context set <andy@dev>

$ pxctl context create <andy@dev> --token <token> --endpoint http://dev-cluster:9001

CLOUD CREDENTIALS

Description:

$ pxctl credentials create --provide

SUBCOMMAND

$ pxctl credentials list

$ pxctl credentials validate

STORKCTL

Description: Storage Orchestration for K8s

$ storkctl --help

SUBCOMMAND

$ storkctl get clusterpair

$ storkctl get applicationbackup

$ storkctl get backupLocation

$ storkctl get applicationrestore

ALERTS

Description: Portworx alerts

$ pxctl alert info

$ pxctl alert show

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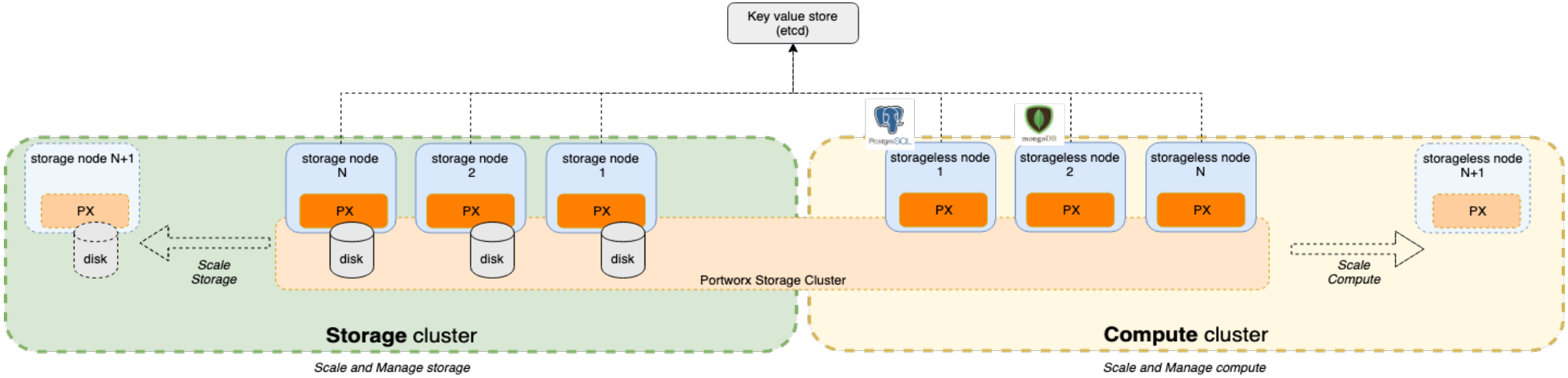
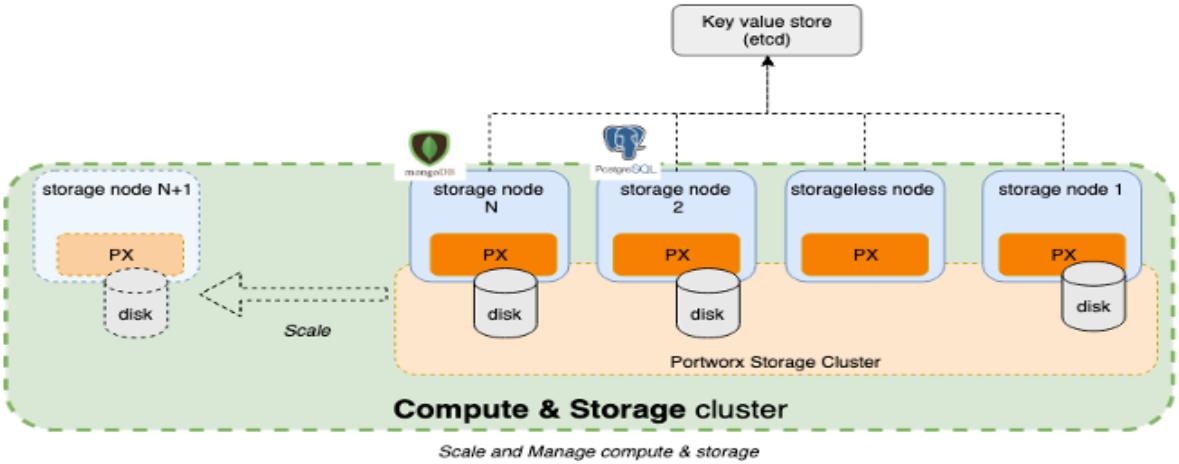
Disaggregated: Separate Storage and Compute clusters



Converged: Hyperconverged Storage and Compute clusters



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