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ZFS command line reference Cheat Sheet

by tim (The IceMan Blog) via cheatography.com/1411/cs/20047/

Pool Related Commands

`# zpool create datapool c0t0d0`	Create a basic pool named datapool
`# zpool create -f datapool c0t0d0`	Force the creation of a pool
`# zpool create -m /data datapool c0t0d0`	Create a pool with a different mount point than the default.
`# zpool create datapool raidz c3t0d0 c3t1d0 c3t2d0`	Create RAID-Z vdev pool
`# zpool add datapool raidz c4t0d0 c4t1d0 c4t2d0`	Add RAID-Z vdev to pool datapool
`# zpool create datapool raidz1 c0t0d0 c0t1d0 c0t2d0 c0t3d0 c0t4d0 c0t5d0`	Create RAID-Z1 pool
`# zpool create datapool raidz2 c0t0d0 c0t1d0 c0t2d0 c0t3d0 c0t4d0 c0t5d0`	Create RAID-Z2 pool
`# zpool create datapool mirror c0t0d0 c0t5d0`	Mirror c0t0d0 to c0t5d0
`# zpool create datapool mirror c0t0d0 c0t5d0 mirror c0t2d0 c0t4d0`	disk c0t0d0 is mirrored with c0t5d0 and disk c0t2d0 is mirrored withc0t4d0
`# zpool add datapool mirror c3t0d0 c3t1d0`	Add new mirrored vdev to datapool
`# zpool add datapool spare c1t3d0`	Add spare device c1t3d0 to the datapool
`# zpool create -n geekpool c1t3d0`	Do a dry run on pool creation

Show file system info

`# zfs list`	List all ZFS file system
`# zfs get all datapool`	List all properties of a ZFS file system

Mount/Umount Related Commands

`# zfs set mountp oin t=/data datapo ol/fs1`	Set the mount-point of file system fs1 to /data
`# zfs mount datapo ol/fs1`	Mount fs1 file system
`# zfs umount datapo ol/fs1`	Umount ZFS file system fs1
`# zfs mount -a`	Mount all ZFS file systems
`# zfs umount -a`	Umount all ZFS file systems

Import/Export Commands

`# zpool import`	List pools available for import
`# zpool import -a`	Imports all pools found in the search directories
`# zpool import -d`	To search for pools with block devices not located in /dev/dsk
`# zpool import -d /zfs datapool`	Search for a pool with block devices created in /zfs
`# zpool import oldpool newpool`	Import a pool originally named oldpool under new name newpool
`# zpool import 3987837483`	Import pool using pool ID
`# zpool export datapool`	Deport a ZFS pool named datapool
`# zpool export -f datapool`	Force the unmount and deport of a ZFS pool

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Clone Commands

`# zfs clone datapo ol/ fs1 @10 jan2014 /clone s/fs1`	Clone an existing snapshot
`# zfs destroy datapo ol/ fs1 @10 jan2014`	Destroy clone

Show Pool Information

`# zpool status -x`	Show pool status
`# zpool status -v datapool`	Show individual pool status in verbose mode
`# zpool list`	Show all the pools
`# zpool list -o name,size`	Show particular properties of all the pools (here, name and size)
`# zpool list -Ho name`	Show all pools without headers and columns

File-system/Volume related commands

`# zfs create datapo ol/fs1`	Create file-system fs1 under datapool
`# zfs create -V 1gb datapo ol/ vol01`	Create 1 GB volume (Block device) in datapool
`# zfs destroy -r datapool`	destroy datapool and all datasets under it
`# zfs destroy -fr datapo ol/data`	destroy file-system or volume (data) and all related snapshots

Set ZFS file system properties

`# zfs set quota=1G datapo ol/fs1`	Set quota of 1 GB on filesystem fs1
`# zfs set reserv ati on=1G datapo ol/fs1`	Set Reservation of 1 GB on filesystem fs1
`# zfs set mountp oin t=l egacy datapo ol/fs1`	Disable ZFS auto mounting and enable mounting through /etc/vfstab.
`# zfs set sharen fs=on datapo ol/fs1`	Share fs1 as NFS
`# zfs set compre ssi on=on datapo ol/fs1`	Enable compression on fs1
`zfs set record siz e=[ size] pool/d ata set / name`	Set Dataset Record Size (Size should be a value like 16k, 128k, or 1M etc.)
`zfs get recordsize pool/d ata set /name`	Get Dataset Record Size

ZFS I/O performance

`# zpool iostat 2`	Display ZFS I/O Statistics every 2 seconds
`# zpool iostat -v 2`	Display detailed ZFS I/O statistics every 2 seconds

ZFS maintenance commands

`# zpool scrub datapool`	Run scrub on all file systems under data pool
`# zpool offline -t datapool c0t0d0`	Temporarily offline a disk (until next reboot)
`# zpool online`	Online a disk to clear error count
# zpool clear	Clear error count without a need to the disk

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Snapshot Commands

`# zfs snapshot datapo ol/ fs1 @12 jan2014`	Create a snapshot named 12jan2014 of the fs1 filesystem
`# zfs list -t snapshot`	List snapshots
`# zfs rollback -r datapo ol/ fs1 @10 jan2014`	Roll back to 10jan2014 (recursively destroy intermediate snapshots)
`# zfs rollback -rf datapo ol/ fs1 @10 jan2014`	Roll back must and force unmount and remount
`# zfs destroy datapo ol/ fs1 @10 jan2014`	Destroy snapshot created earlier
`# zfs send datapo ol/ fs1 @oc t2013 > /geekp ool /fs 1/o ct2 013.bak`	Take a backup of ZFS snapshot locally
`# zfs receive anothe rpo ol/fs1 < /geekp ool /fs 1/o ct2 013.bak`	Restore from the snapshot backup backup taken
`# zfs send datapo ol/ fs1 @oc t2013 | zfs receive anothe rpo ol/fs1`	Combine the send and receive operation
`# zfs send datapo ol/ fs1 @oc t2013 | ssh node02 "zfs receive testpo ol/ te s tfs "`	Send the snapshot to a remote system node02

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