

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 with c0t4d0
# 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

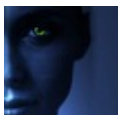
# zfs list	List all ZFS file system
# zfs get all datapool	List all properties of a ZFS file system

Mount/Umount Related Commands

# zfs set mountpoint=/data datapool/fs1	Set the mount-point of file system fs1 to /data
# zfs mount datapool/fs1	Mount fs1 file system
# zfs umount datapool/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



By **tim** (The IceMan Blog)
cheatography.com/the-iceman-blog/
blog.rabin.io/

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Clone Commands

# zfs clone datapool/fs1@10jan2014 /clones/fs1	Clone an existing snapshot
# zfs destroy datapool/fs1@10jan2014	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 datapool/fs1	Create file-system fs1 under datapool
# zfs create -V 1gb datapool/vol01	Create 1 GB volume (Block device) in datapool
# zfs destroy -r datapool	destroy datapool and all datasets under it
# zfs destroy -fr datapool/data	destroy file-system or volume (data) and all related snapshots

Set ZFS file system properties

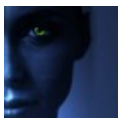
# zfs set quota=1G datapool/fs1	Set quota of 1 GB on filesystem fs1
# zfs set reservation=1G datapool/fs1	Set Reservation of 1 GB on filesystem fs1
# zfs set mountpoint=legacy datapool/fs1	Disable ZFS auto mounting and enable mounting through /etc/vfstab.
# zfs set sharenfs=on datapool/fs1	Share fs1 as NFS
# zfs set compression=on datapool/fs1	Enable compression on fs1
zfs set recordsize=[size] pool/dataset/name	Set Dataset Record Size (Size should be a value like 16k, 128k, or 1M etc.)
zfs get recordsize pool/dataset/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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cheatography.com/the-iceman-blog/
blog.rabin.io/

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Snapshot Commands

<pre># zfs snapshot datapool/fs1@12jan2014</pre>	Create a snapshot named 12jan2014 of the fs1 filesystem
<pre># zfs list -t snapshot</pre>	List snapshots
<pre># zfs rollback -r datapool/fs1@10jan2014</pre>	Roll back to 10jan2014 (recursively destroy intermediate snapshots)
<pre># zfs rollback -rf datapool/fs1@10jan2014</pre>	Roll back must and force unmount and remount
<pre># zfs destroy datapool/fs1@10jan2014</pre>	Destroy snapshot created earlier
<pre># zfs send datapool/fs1@oct2013 > /geekpool/fs1/oct2013.bak</pre>	Take a backup of ZFS snapshot locally
<pre># zfs receive anotherpool/fs1 < /geekpool/fs1/oct2013.bak</pre>	Restore from the snapshot backup backup taken
<pre># zfs send datapool/fs1@oct2013 zfs receive anotherpool/fs1</pre>	Combine the send and receive operation
<pre># zfs send datapool/fs1@oct2013 ssh node02 "zfs receive testpool/testfs"</pre>	Send the snapshot to a remote system node02



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