Cheatography

# 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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Published 16th July, 2019.
Last updated 5th August, 2019.




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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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