

Pool operations

Examining a pool

zpool list – list available pools
zpool list <pool-name> – list a specific pool
zpool status <pool-name> – show status of the pool
zpool iostat <pool-name> <sec-interval> <count> - show I/O statistics of the pool at an interval of seconds in a loop count represented by the count variable
zpool status -x <pool-name> – show a specific pool health status

Creating pool

Synopsis
zpool create <pool-name> <vdev> <dev> <dev>

Examples
zpool create my-stripe c1t0d0 c1t1d0 – create my-stripe pool built up from a stripe(RAID0) setup
zpool attach my-mirror c1t0d0 c1t1d0 – create a mirror vdev built up from an existing c1t0d0 device and a new device – c1t1d0
zpool create my-mirror mirror c1t0d0 c1t1d0 – create my-mirror pool built up from a mirror(RAID1) setup
zpool add my-mirror mirror c1t0d0 c1t1d0 – add another mirror vdev to my-mirror pool
zpool create my-raidz raidz c1t0d0 c1t1d0 c1t2d0 c1t3d0 – create my-raidz pool built up from RAIDZ1 (RAID5 alike). You can also specify **raidz2** instead of **raidz** to allow a pool built up from RAIDZ2(RAID6 alike)
zpool add my-raidz raidz c1t0d0 c1t1d0 c1t2d0 – add another RAIDZ1 vdev to my-raidz pool. You can also specify **raidz2** instead of **raidz**

Destroying pool

Synopsis
zpool destroy <pool-name>

Examples
zpool destroy my-pool – destroy my-pool pool
zpool destroy -f my-pool – destroy my-pool pool with all of

it's file-system hierarchy without any warning

Exporting a pool

Synopsis
zpool export <pool-name>

Examples
zpool export pool1 – export pool pool1
zpool export -f pool1 – forcefully export pool pool1

Importing a pool

Synopsis
zpool import <pool-name>

Examples
zpool import – list all pools available for import
zpool import -D – list all pools available for import including destroyed ones
zpool import -Df <pool-name> - import a previously destroyed pool.

Adding cache to a pool

zpool add <pool-name> cache <dev>

Pool version

zpool upgrade -v – show pool version

Pool history

zpool history <pool-name> – show all zfs operations executed on this pool

File-System operations

Creating file-system

Synopsis
zfs create [-o options] <pool-name>/<fs-name>

Examples
zfs create pool1/fs1 – create the file system fs1 under pool1

zfs create -p pool1/fs1/fs2/fs3 - create a hierarchy of file systems fs1/fs2/fs3

Destroying file-system

Synopsis
zfs destroy <pool-name>/<fs-name>

Examples
zfs destroy pool1/fs1 – destroy dataset pool1/fs1
zfs destroy -r pool1/fs1 – recursively destroy all the datasets under pool1/fs1
zfs destroy -R pool1/fs1 – destroy dataset pool1/fs1 with all of it's referenced datasets

Snapshots operations

Handling snapshots

Synopsis
zfs snapshot <pool-name>/<fs-name>@<snapshot-name>
Examples
zfs snapshot pool1/fs1@phase1-3.3.09 – create snapshot named phase1-3.3.09
zfs snapshot pool1/fs1/fs2@phase2-4.3.09 - create snapshot named phase2-4.3.09 in a file-system hierarchy
zfs rollback pool1/fs1@phase1-3.3.09 – rollback the filesystem fs1 to the snapshot named phase1-3.3.09

Clone operations

Handling clones

Synopsis
zfs clone <pool-name>/<fs-name>@<snapshot-name> \<pool-name>/<fs-name>

Examples
zfs clone pool1/fs1/fs2@phase2-4.3.09 pool1/fs1-phase2-clone - clone pool1/fs1/fs2@pshase2-4.3.09 snapshot to a read-write pool1/fs1-phase2-clone dataset
zfs promote pool1/fs1-phase2-clone - promote the clone to be a primary dataset