



ext4 zfs xfs ntfs.....

- [xfs](#)
- [ZFS](#)

xfs

xfs_admin: `xfs` `XXXXXXXXXX`
xfs_copy: `xfs` `XXXXXXXXXXXXXXXXXXXXXXXXXXXX`
xfs_db: `XXXX` `xfs` `XXXXXXXXXXXXXX`
xfs_check: `xfs` `XXXXXX`
xfs_bmap: `XXXXXXXXXX`
xfs_repair: `XXXXXX` `xfs` `XXXX`
xfs_fsr: `XXXX`
xfs_quota: `xfs` `XXXXXXXXXX`
xfs_metadump: `xfs` `XXXXXXXXXX` (metadata) `XXXXXXXXXX`
xfs_mdrestore: `XXXXXXXXXX` (metadata) `XXXX` `xfs` `XXXX`
xfs_growfs: `XXXX` `xfs` `XXXXXXXXXXXXXX`
xfs_logprint: print the log of an XFS filesystem
xfs_mkfile: create an XFS file
xfs_info: expand an XFS filesystem
xfs_ncheck: generate pathnames from i-numbers for XFS
xfs_rtcp: XFS realtime copy command
xfs_freeze: suspend access to an XFS filesystem
xfs_io: debug the I/O path of an XFS filesystem

ZFS

zfs

```
zfs status
zpool import -[pool]
zpool import zpool -[pool]
zpool list -[zfs]
zpool get freeing zpool --[pool]
```

```
cat /proc/spl/kstat/zfs/arcstats --[pool]
```

```
/etc/modprobe.d/zfs.conf
```

```
options zfs zfs_arc_max=4299967296 --[pool]4GB[zfs][pool]4GB
```

```
zfs set user quota@username=10gb --[pool]none[pool]groupquota[pool]
zfs get quota --[pool]
zfs set reservation=10G --zpool[pool]none[pool]
zfs get reservation --[pool]
```

zpool destroy

```
zpool create pool /dev/sda([pool]) -[pool]
zpool create zpool mirror /dev/sda /dev/sdb -[pool]zpool
zpool add zpool raidz ada2s1 ada2s2 ada2s3 ada2s4([pool])
```

Raidz1 Raid5 HD

Raidz2 Raid6 HD4HD

Raidz3 HD

-o ashift=12

-m

```
zfs create -o compression=on zpool --[pool]
zfs create -o compression=lz4 zpool --[pool] lz4
zfs set compression=on tank([pool]) -[pool]zpool
zfs set compression=lz4 tank([pool])-[pool]zpool lz4([pool])
```

```
zpool destroy pool1 --zpool(11111)
```

A horizontal number line with arrows at both ends. It is marked with numbers from 0 to 100 in increments of 10: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100. There are vertical tick marks at each number. A blue arrow starts at 0 and points to 10, labeled with a blue '10'.

```

zpool offline zpool<> ada2s2 —<><>
zpool replace zpool<> ada2s2(<>) ada3s1(<>) —<><><>
zpool detach zpool<> /dev/sda —<><>
zpool attach zpool<> /dev/sdb(<>) /dev/sda(<>) —<><><>(<>Raid1)
zpool status —<><><><>
zpool clear -F zpool<> --<>zpool
zfs set compression=on zpool<> —<>Zpool<><>
zfs set compression=lz4 zpool<> —<>Zpool<>lz4<>
zpool upgrade tank —<>zpool<>
zfs get compression —<><><><>
zfs get compressratio—<><>(<><>)
zfs rename (<><>) <><><>

```

ubuntu umount

```
zfs diff ---[redacted]

zfs snapshot zpool[redacted]@[redacted] --[redacted]-r[redacted]

zfs destroy zpool[redacted] --[redacted]

zfs rename zpool[redacted] zpool[redacted] --[redacted]-r[redacted]@[redacted]

zfs rollback [redacted] --[redacted]

zfs rollback [redacted] --[redacted]

zfs send zpoolA@[redacted]zfs receive zpoolB([zpoolA[redacted]zpoolB[redacted]-i[redacted])

zfs send zpoolA@[redacted] > zpoolB([zpoolA[redacted]zpoolB)

zfs list --[redacted]-t all[redacted]-t snapshot [redacted]
```

[] [] [] [] : [] [] - f [] [] [] []

zpool labelclear

--	--	--	--	--	--	--

:

```
zpool get all zpool
```

[] [] [] [] [] [] [] [] :

```
zpool list -v
```

```
#zpool:
```

```
zpool set autoexpand=on zpool
```

```
#L2ARC:remove)
```

```
zpool add -f zpool cache /dev/disk/by-id/
```

```
#ZIL:
```

```
zpool add zpool log /dev/disk/by-id/
```

```
#zpool.cache File
```

```
zpool set cachefile=/etc/zfs/zpool.cache zpool
```

```
zpool zpool
```

```
zpool iostat -v
```

```
#zpool Metadata Special Device
```

```
zpool add zpool special mirror /dev/nvme0n1 /dev/nvme1n1
```

- **Metadata** **ZFS**, **HDD** **ZFS** **SSD** **Special Device**
mirror **pool** **special device**, **special device**
- **zpool** : zpool add <pool> special mirror <device1> <device2>
- Exp. **pbs-zpool** /dev/nvme0n1 /dev/nvme1n1 **special device**

```
zpool iostat -v zpool -zpool
```

```
zfs scrub zpool -zpool
```

```
zpool-s
```

```
zpool
```

```
zpool
```

```
zpool online -e pool-00 adaX adaX zpool
```

```
zfszpoolswap
```

```
zfs create -V swap zfs/swap
zfs set checksum=off zfs/swap
zfs set zfs/swap=on zfs/swap
ll /dev/zvol/zfs/ #
mkswap -f /dev/zvol/zfs/swap
swapon /dev/zvol/zfs/swap
vim /etc/fstab
/dev/zvol/zfs/swap none swap sw 0 0
```

zfs

```
nano /etc/modprobe.d/zfs.conf
4GB:
    options zfs zfs_arc_max=4294967296
6GB:
    options zfs zfs_arc_max=6442450944
```

```
update-initramfs -u -k all
```