



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]zpool[ ]
```

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

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

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

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

zpool destroy

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

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]
zfs set compression=lz4 tank([ ]) -[pool] lz4([ ])
```

```
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. There are vertical tick marks for every 10 units, labeled 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, and 100. A blue arrow starts at the 0 tick mark and points to the 10 tick mark, with the number '10' written above it.

```

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([redacted]zpoolA[redacted]zpoolB[redacted]-i[redacted])

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

```
#zpool L2ARCzpool:zpool removezpool)
```

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

```
#zpool ZILzpool:
```

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

```
#zpool zpool.cache File
```

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

```
zpool zpool zpool
```

```
zpool iostat -v
```

```
#zpool zpool Metadata zpool Special Device zpool
```

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

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