



ext4 zfs xfs ntfs.....

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

xfs

xfs_admin: `xfs` `XXXXXXXXXX`
xfs_copy: `xfs` `XXXXXXXXXXXXXXXXXXXXXXXXXXXX`
xfs_db: `XXXX` `xfs` `XXXXXXXXXXXXXXXXXX`
xfs_check: `xfs` `XXXXXXXXXX`
xfs_bmap: `XXXXXXXXXX`
xfs_repair: `XXXXXXXX` `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` `XXXXXXXXXXXXXXXXXX`
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 add zpool raidz ada2s1 ada2s2 ada2s3 ada2s4([pool])
```

Raidz1 Raid5 HD

Raidz2 Raid6 HD4 HD

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]
zfs set compression=lz4 tank([pool])-[pool] 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. There are vertical tick marks for each number. The numbers 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, and 100 are written below the tick marks. A blue arrow starts at the 0 tick mark and points to the 10 tick mark.

```

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
```