ZFS□□□□

□□zfs□□□□□□

```
zfs status
zpool import —□□zpool□□
zpool import zpool□□ —□□zpool□□□
zpool list —□□□zfs
zpool get freeing zpool□□       --□□□□□□□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(□□□□□□)  —□□zpool
zpool create zpool□□ mirror /dev/sda /dev/sdb —□□□□zpool
zpool add zpool□□ raidz ada2s1 ada2s2 ada2s3 ada2s4(□□□□□)
```

□□□Raidz1 □□□ Raid5 □□□□HD□
Raidz2 □□□ Raid6 □□□□HD□□□□□□4□HD
Raidz3 □□□□HD□
-o ashift=12 □□□□
-m □□□□

```
zfs create -o compression=on zpool□□ --□□zpool □□□□□
zfs create -o compression=lz4 zpool□□ --□□zpool □□□lz4□□
zfs set compression=on tank(□□□□□) —□□□□zpool□□□
zfs set compression=lz4 tank(□□□□□)—□□□□□zpool lz4□□(□□)
```

```
zpool destroy pool□□ —□□zpool(□□□□□)
```

□□□□□□□□□□□□□□□□□□□□ -r □□□□

```
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   ---□□□□
zfs snapshot zpool□□@□□□□   --□□□□□□□-r□□□□□□□□□
zfs destroy zpool□□   --□□□□
zfs rename zpool□□□ zpool□□□ --□□□□□□□□□-r□□□@□□□□□□□
zfs rollback □□□□      --□□□□□□
zfs rollback □□□□□□□□□     --□□□□□□□□□
zfs send zpoolA@□□□□□zfs receive zpoolB(□zpoolA□□□□□□zpoolB□□-i□□□□□□)
zfs send zpoolA@□□□□ > zpoolB(□zpoolA□□□□□□zpoolB)
zfs list  --□□□□□□□□□□□□□□□ -t all□□□□□-t snapshot □□□□□□
```

#□□□□□:□□-f□□□□□

```
zpool labelclear
```

#□□□□□□□:

```
zpool get all zpool□□
```

#□□□□□□□□:

```
zpool list -v
```

#□□□□□□□□:

```
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 iostat -v
```

#□ zpool □□ Metadata □ Special Device □□□□□□□□□

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

· □□□Metadata □□ ZFS □□□□□□□□□□□, □□□□□□□□□□□

```
zfs create -V swap□□ zfs□□/swap
zfs set checksum=off zfs□□/swap
zfs set □□□□□: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
```

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