ZFS

- migration
- installation
- pool
- replace

migration

These commands will migrate one zfs pool to another server using netcat

```
zfs snapshot -r data@migrate_20200215
zfs list -t snapshot
zfs send -R data@migrate_20200215 | nc -l 3333
```

On the remote server you can execute

```
nc 10.7.10.71 3333 | zfs recv -Fd data
```

The version with netcat performed with much higher transfere speed than if you would use ssh.

installation

```
apt install lsscsi hddtemp lm-sensors vim htop screen mpt-status smartmontools parted lsof hdparm zfsutils-linux -y
```

Clean disks

```
wipefs -a /dev/sdb
```

RAIDZ1

```
zpool create data raidz1 sdb sdi sdq raidz1 sdc sdj sdr raidz1 sdd sdk sds raidz1 sde sdl sdt raidz1 sdf sdm sdu raidz1 sdg sdn sdv raidz1 sdh sdo sdw
```

RAIDZ2

```
zpool create data raidz2 sdb sdc sdy sdz sdq sdr raidz2 sdd sde sdw sdx sdo sdp raidz2 sdf sdg sdu sdv sdm sdn raidz2 sdh sdi sdk sdl sds sdt
```

```
zfs set compression=zstd data
```

```
zpool export data
zpool import -d /dev/disk/by-id data
```

```
zfs set mountpoint=/var/lib/docker data
```

```
zfs set mountpoint=none data
```

```
zfs get mountpoint data
```

pool

replace

```
blkid
```

```
lsblk -r|awk 'NR==1{print $0" DEVICE-ID(S)"}NR>1{dev=$1;printf $0" ";system("find /dev/disk/by-id -lname \"*"dev"\" -printf \" %p\"");print "";}'
```

```
udevadm info --query=all --name=/dev/sdd | grep SCSI_IDENT_SERIAL
```

```
sdb 8:16 0 2.7T 0 disk   /dev/disk/by-id/wwn-0x5000cca0585fdc44 /dev/disk/by-id/scsi-35000cca0585fdc44
```

```
zpool offline data 8254740297691293767
```

```
zpool replace data 8254740297691293767 /dev/disk/by-id/wwn-0x5000cca0585fdc44
```