Software Raid

Create raid:

Raid 1

```
mdadm --create --verbose /dev/md0 --level=1 --raid-devices=2 /dev/sdX /dev/sdX
```

Raid 5

```
mdadm --create --verbose /dev/md0 --level=5 --raid-devices=3 /dev/sdX /dev/sdX /dev/sdX
```

Raid 6

```
mdadm --create --verbose /dev/md0 --level=6 --raid-devices=4 /dev/sda /dev/sdX /dev/sdX /dev/sdX
```

Raid 10

```
mdadm --create --verbose /dev/md0 --level=10 --layout=o3 --raid-devices=4 /dev/sdX /dev/sdX /dev/sdX /dev/sdX
```

Stop raid:

```
mdadm --stop /dev/md0
```

Assemble raid:

```
mdadm -A /dev/mdX /dev/sdaX --run
```

Adding a drive in a failed raid:

```
mdadm --manage /dev/md0 --add /dev/sdb1
```

Resize drives after a HDD swap to something larger

```
screen
resize2fs `mount | grep "on / " | cut -d " " -f 1` && exit
```

> Then check with "watch df -h" and watch it go up

Cloning a partition table

MBR:

> X = Source (old drive), Y = Destination (new drive)

```
sfdisk -d /dev/sdX | sfdisk /dev/sdY --force
```

GPT:

> Install gdisk

> The first command copies the partition table of sdX to sdY

```
sgdisk -R /dev/sdY /dev/sdX
sgdisk -G /dev/sdY
```

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