

mdadm Cheat Sheet

mdadm is a GNU/Linux utility used to manage and monitor software RAID devices. It is used in modern GNU/Linux distributions in place of older software RAID utilities such as raidtools2 or raidtools.

Glossary:

md: multiple devices

```
cat /proc/mdstat : show status of all raids
```

```
mdadm --detail /dev/md0 : detailed status of raid md0
```

```
mdadm --create /dev/md0 -n2 -l1 /dev/sda1 /dev/sdb1 : new raid  
/dev/md0 with 2 disks, raid level 1 on /dev/sda1 and /dev/sda2
```

```
mdadm --fail /dev/md0 /dev/sda1 ; mdadm --remove /dev/md0  
/dev/sda1 : remove /dev/sda1 from /dev/md0
```

```
mdadm --add /dev/md0 /dev/sda1 : add /dev/sda1 to /dev/md0
```

```
mdadm --grow /dev/md0 -n3 : use 3 disks in raid /dev/md0 (e.g. add an  
additional disk, so a damaged drive can be removed later-on)
```

```
mdadm --assemble /dev/md0 : Assemble /dev/md0 (e.g. when running  
live system)
```

```
mdadm --detail --scan >> /etc/mdadm/mdadm.conf : Update list of arrays  
in /etc/mdadm/mdadm.conf ; you should remove old list by hand first!
```

```
mdadm --examine /dev/sda1 : What is this disk / partition?
```

`sysctl -w dev.raid.speed_liit_min=10000` : Set minimum raid rebuilding speed to 10000 kiB/s (default 1000)

`sfdisk -d /dev/sda | sfdisk /dev/sdb` : Copy partition table from sda to sdb

. . .

To boot a machine even with a degraded array, modify `/etc/initramfs-tools/conf.d/mdadm` and run `update-initramfs -c -kall` (Use with caution!)