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RAID

Copy Partition Scheme

Save to file

```
sfdisk -d /dev/sda > partitions
```

Restore from File and force

```
sfdisk --force /dev/sda < partitions
```

In one step

```
sfdisk -d /dev/sda | sfdisk /dev/sdb
```

Get Disk Serial

Using smartctl

```
smartctl -i /dev/sda
```

Check RAID Status

```
cat /proc/mdstat
```

Remove a Malfunctioning Disk

Do the Folloing for all partitions of the malfunctioning disk. Note that mark as faill is not necessary or even possible in case the disk is not detected anymore from the OS.

Mark partition as failed

```
mdadm --manage /dev/md0 --fail /dev/sda1
```

Remove Partition

```
mdadm --manage /dev/md0 --remove /dev/sda1
```

Add New Disk in Array

Repeat for all required partitions

```
mdadm --manage /dev/md0 --add /dev/sda1
```