RAID:

$ sudo -i

$ fdisk -l

Ejecutar para cada disco: sda, sdb y sdc:

$ fdisk /dev/sda

=> n

=> p

=> t (changing partition type)

=> L

=> fd

=> p (to see partition details)

=> w

$ mkfs.ext4 /dev/sda1

Test:

$ mount -t ext4 /dev/sda1 /mnt

$ df -h

$ umount /mnt

$ fdisk -l

$ lsblk

$ mdadm --create /dev/md0 --level=5 --raid-devices=3 /dev/sda1 /dev/sdb1 /dev/sdc1

$ cat /proc/mdstat

$ mdadm -E /dev/sd[a-c]1

$ mdadm --detail /dev/md0

$ mkfs.ext4 /dev/md0

$ lsblk

$ mount /dev/md0 /mnt/md0

$ df -h

$ mdadm --detail --scan --verbose >> /etc/mdadm/mdadm.conf

=> ¿Qué sucede al reiniciar? Explicar la resolución

$ mdadm --stop /dev/md127

$ mdadm --assemble --scan

$ update-initramfs -u -v

GLUSTERFS:
MVA:
$ apt update
$ fdisk /dev/sda
$ fdisk /dev/sdb
$ fdisk /dev/sdc
$ clear
$ mkfs -t ext4 /dev/sda1
$ mkfs -t ext4 /dev/sdb1
$ mkfs -t ext4 /dev/sdc1
$ mkdir -p /data/node1
$ mkdir -p /data/node2
$ mkdir -p /data/node3
$ nano /etc/fstab
$ mount -a
$ df -h
$ apt install glusterfs-client glusterfs-server => (en mva y mvb)
$ systemctl start glusterd
$ systemctl enable glusterd
$ systemctl status glusterd
$ gluster peer probe mvb
$ gluster peer status
$ gluster pool list
$ gluster volume create tv1 replica 2 mva:/data/node1/brick0 mvb:/data/node4/brick0
$ gluster volume start tv1
$ gluster volume info

Archivo /etc/fstab en mva:

```
# /etc/fstab: static file system information.
#
UUID=7e159bcd-82de-4d68-a899-398b69c42d3f /               ext4    errors=remount-ro 0       1
# swap was on /dev/sda5 during installation
UUID=9311667f-fb2c-4a5c-82cc-ff3d37146c18 none            swap    sw                0       0
/dev/sr0        /media/cdrom0   udf,iso9660 user,noauto     0       0

# Node 1
/dev/sda1       /data/node1     ext4    defaults        0       1
# Node 2
/dev/sdb1       /data/node2     ext4    defaults        0       1
# Node 3
/dev/sdc1       /data/node3     ext4    defaults        0       1
```

MVB:

```
$ apt update
$ clear
$ apt update
$ fdisk /dev/sda
$ fdisk /dev/sdb
$ fdisk /dev/sdc
$ clear
$ mkdir -p /data/node4
$ mkdir -p /data/node5
$ mkdir -p /data/node6
$ nano /etc/fstab
$ mount -a
$ mkfs -t ext4 /dev/sda1
$ mkfs -t ext4 /dev/sdb1
$ mkfs -t ext4 /dev/sdc1
$ clear
$ mount -a
$ df -h
$ apt install glusterfs-client glusterfs-server
$ systemctl start glusterd
$ systemctl enable glusterd
$ systemctl status glusterd
$ ping mva
$ gluster peer probe mva
$ gluster peer status
$ gluster pool list
==================
$ mkdir /data-client
$ mount.glusterfs mva:/tv1 /data-client
$ df -h
$ nano /etc/fstab
$ reboot
$ clear
$ cd /data-client/
$ touch {file..15}.md
$ ls -l
$ rm *
$ touch file{1..15}.md
$ ls -l
$ ls -l
$ ls -l
$ ls -l
$ clear
```

$ rm *
$ cd /data/node4/brick0/
$ ls -l
$ cd /data-client
$ ls -l
$ touch file{1..15}.md
$ ls -l
$ ls -l /data/node4/brick0/
$ gluster peer status
$ clear
$ gluster peer status (con mva desconectada)
$ gluster peer status (tras conectar mva)
$ clear

Archivo /etc/fstab en mvb:

```
# /etc/fstab: static file system information.
#
# Use 'blkid' to print the universally unique identifier for a
# device; this may be used with UUID= as a more robust way to name devices
# that works even if disks are added and removed. See fstab(5).
#
# systemd generates mount units based on this file, see systemd.mount(5).
# Please run 'systemctl daemon-reload' after making changes here.
#
# <file system> <mount point>   <type>  <options>       <dump>  <pass>
# / was on /dev/sda1 during installation
UUID=7e159bcd-82de-4d68-a899-398b69c42d3f /               ext4    errors=remount-ro 0       1
# swap was on /dev/sda5 during installation
UUID=9311667f-fb2c-4a5c-82cc-ff3d37146c18 none            swap    sw              0       0
/dev/sr0        /media/cdrom0   udf,iso9660 user,noauto          0       0

# Node 4
/dev/sda1       /data/node4     ext4    defaults        0       1

# Node 5
/dev/sdb1       /data/node5     ext4    defaults        0       1

# Node 6
/dev/sdc1       /data/node6     ext4    defaults        0       1

# Data client
mva:/tv1        /data-client    glusterfs       defaults,_netdev        0       0
```