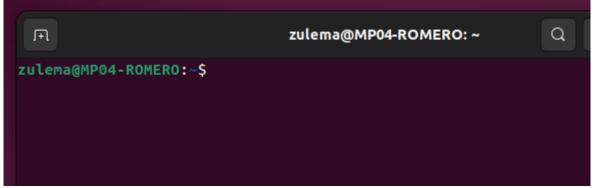
1. Canvia el nom de l'equip tant amb hostnamectl com a /etc/hosts.



2. Mira si hi ha una versió LTS nova de Linux

```
zulema@MP04-ROMERO:~
Zulema@MP04-ROMERO:~$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description: Ubuntu 22.04.5 LTS
Release: 22.04
Codename: jammy
zulema@MP04-ROMERO:~$
```

3. Utilitza la comanda df i mostra la sortida amb lectura per a humans.

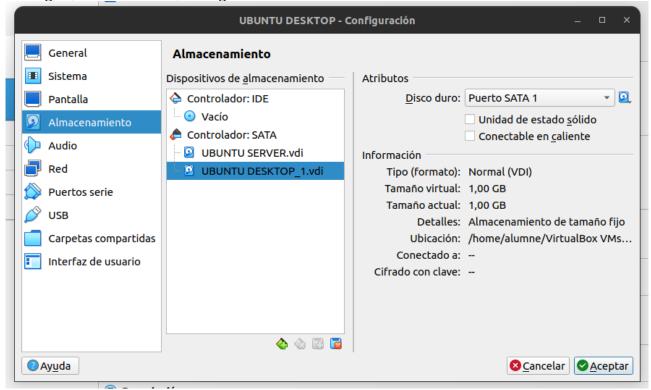
```
zulema@MP04-ROMER0:~$ df
Filesystem
               1K-blocks
                            Used Available Use% Mounted on
tmpfs
                  401052
                            1460
                                    399592
                                             1% /run
/dev/sda5
                33081032 8446984
                                  22921408 27% /
                                   2005252 0% /dev/shm
tmpfs
                 2005252
                             0
tmpfs
                    5120
                               4
                                      5116
                                           1% /run/lock
/dev/sda4
                 9740796
                           12840
                                   9211556
                                           1% /home
/dev/sda2
                  497684
                            6228
                                    491456
                                            2% /boot/efi
tmpfs
                             104
                                    400944
                                            1% /run/user/1000
                  401048
zulema@MP04-ROMER0:~S
```

4. Personalitza la comanda df per que mostri a la sortida tota la informació normal i també el tipus de sistema de fitxers.

```
zulema@MP04-ROMER0:~S df -hT
Filesystem
                            Used Avail Use% Mounted on
               Type
                      Size
tmpfs
               tmpfs
                      392M
                            1,5M
                                 391M
                                         1% /run
                            8,1G
/dev/sda5
                       32G
                                  22G
               ext4
                                         27% /
tmpfs
                                 2,0G
                                         0% /dev/shm
               tmpfs
                      2,0G
                             0
               tmpfs
                                         1% /run/lock
tmpfs
                      5,0M
                            4,0K
                                  5,0M
                            13M
                                         1% /home
/dev/sda4
                      9,3G
                                  8,8G
               ext4
/dev/sda2
                      487M
                                  480M
                                         2% /boot/efi
               vfat
                            6,1M
                                          1% /run/user/1000
tmpfs
               tmpfs
                      392M
                            100K
                                  392M
zulema@MP04-ROMER0:~$
```

5. Personalitza la comanda df fent que les dades que es mostrin siguin, origen de dades, espai disponible i sistema de fitxers, només per als que utilitzin ext4 (fes servir grep).

6. Afegeix, si no ho has fet, un segon disc dur virtual de 1GB a la MV.



7. Fent servir fdisk mostra el tamany del segon disc.

```
Disk /dev/sdb: 1 GiB, 1073741824 bytes, 2097152 sectors
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
```

8. Crea una nova partició primària de 256MB al segon disc.

```
zulema@MP04-ROMERO:~$ sudo fdisk /dev/sdb
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Device does not contain a recognized partition table.
Created a new DOS disklabel with disk identifier 0x982cf192.
Command (m for help): n
Partition type
      primary (0 primary, 0 extended, 4 free)
      extended (container for logical partitions)
  e
Select (default p): p
Partition number (1-4, default 1): 1
First sector (2048-2097151, default 2048):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (2048-2097151, default 2097151): +
256
Created a new partition 1 of type 'Linux' and of size 128,5 KiB.
Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.
zulema@MP04-ROMER0:~$
```

9. Mostra la nova partició creada amb fdisk.

```
zulema@MP04-ROMERO:~$ sudo fdisk -l /dev/sdb
Disk /dev/sdb: 1 GiB, 1073741824 bytes, 2097152 sectors
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x982cf192

Device Boot Start End Sectors Size Id Type
/dev/sdb1 2048 2304 257 128,5K 83 Linux
zulema@MP04-ROMERO:~$
```

10. Mostra l'espai lliure del disc amb fdisk.

```
zulema@MP04-ROMER0:~$ sudo fdisk -l /dev/sdb
Disk /dev/sdb: 1 GiB, 1073741824 bytes, 2097152 sectors
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x982cf192
Device
          Boot Start
                        End Sectors
                                      Size Id Type
                            257 128,5K 83 Linux
/dev/sdb1
                2048 2304
                4096 528383 524288
/dev/sdb2
                                      256M 83 Linux
zulema@MP04-ROMERO:~$
```

11. Esborra la partició amb fdisk.

```
zulema@MP04-ROMERO:~$ sudo fdisk /dev/sdb
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Command (m for help): p
Disk /dev/sdb: 1 GiB, 1073741824 bytes, 2097152 sectors
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x982cf192
Device
          Boot Start
                        End Sectors
                                      Size Id Type
/dev/sdb1
                2048 2304 257 128,5K 83 Linux
/dev/sdb2
                4096 528383 524288 256M 83 Linux
Command (m for help): d
Partition number (1,2, default 2): 1
Partition 1 has been deleted.
Command (m for help): d
Selected partition 2
Partition 2 has been deleted.
Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.
zulema@MP04-ROMER0:~$
```

12. Crea les següents particions al segon disc. • Primària 100MB. • Primària 400MB. • Estesa de tot el tamany restant (uns 500MB). • Lògica de 250MB. • Lògica de la resta del tamany de disc.

```
Device
           Boot
                   Start
                              End Sectors Size Id Type
/dev/sdb1
                    2048 206847 204800 100M 83 Linux
/dev/sdb2
                  206848 1026047 819200 400M 83 Linux
                 1026048 2050047 1024000 500M 5 Extended
1028096 1540095 512000 250M 83 Linux
/dev/sdb3
/dev/sdb5
                 1542144 2050047 507904 248M 83 Linux
/dev/sdb6
Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.
zulema@MP04-ROMERO:~$
```

13. Mostra les particions creades i escriu-les amb la comanda w.

```
Device
          Boot
                 Start
                           End Sectors Size Id Type
/dev/sdb1
                  2048 206847 204800 100M 83 Linux
                206848 1026047 819200 400M 83 Linux
/dev/sdb2
/dev/sdb3
               1026048 2050047 1024000 500M 5 Extended
/dev/sdb5
               1028096 1540095 512000 250M 83 Linux
/dev/sdb6
               1542144 2050047 507904 248M 83 Linux
Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.
zulema@MP04-ROMERO:~S
```

14. Formateja les particions primàries com ext4.

```
zulema@MP04-ROMER0:~$ sudo mkfs.ext4 /dev/sdb1
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 25600 4k blocks and 25600 inodes
Allocating group tables: done
Writing inode tables: done
Creating journal (1024 blocks): done
Writing superblocks and filesystem accounting information: done
zulema@MP04-ROMER0:~$ sudo mkfs.ext4 /dev/sdb2
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 102400 4k blocks and 102400 inodes
Filesystem UUID: e6fad343-8eff-4001-aec1-2c6f32a47316
Superblock backups stored on blocks:
        32768, 98304
Allocating group tables: done
Writing inode tables: done
Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done
zulema@MP04-ROMERO:~S
```

15. Formateja les particions esteses com NTFS.

```
zulema@MP04-ROMERO:~$ sudo mkfs.ntfs /dev/sdb5
Cluster size has been automatically set to 4096 bytes.
Initializing device with zeroes: 100% - Done.
Creating NTFS volume structures.
mkntfs completed successfully. Have a nice day.
zulema@MP04-ROMERO:~$ sudo mkfs.ntfs /dev/sdb6
Cluster size has been automatically set to 4096 bytes.
Initializing device with zeroes: 100% - Done.
Creating NTFS volume structures.
mkntfs completed successfully. Have a nice day.
zulema@MP04-ROMERO:~$
```

16. Munta les particions a les carpetes següents: • /dev/sda1 a /disc1-X (on X és el teu cognom) • /dev/sda2 a /disc2-X (on X és el teu cognom) • /dev/sda5 a /disc3-X (on X és el teu cognom) • /dev/sda6 a /disc4-X (on X és el teu cognom)

```
zulema@MP04-ROMERO:~
sudo mount /dev/sdb1 /disc1-Romero
zulema@MP04-ROMERO:~
sudo mount /dev/sdb2 /disc2-Romero
zulema@MP04-ROMERO:~
sudo mount /dev/sdb3 /disc3-Romero
mount: /disc3-Romero: mount(2) system call failed: Cannot allocate memory.
zulema@MP04-ROMERO:~
sudo mount /dev/sdb5 /disc3-Romero
zulema@MP04-ROMERO:~
sudo mount /dev/sdb6 /disc4-Romero
zulema@MP04-ROMERO:~
```

17. Prova que pots accedir als discos (accedeix i utilitza la comanda pwd).

```
zulema@MP04-ROMERO:~$ cd /disc1-Romero/
zulema@MP04-ROMERO:/disc1-Romero$ pwd
/disc1-Romero
zulema@MP04-ROMERO:/disc1-Romero$
```

18. Mostra les particions i punt de muntatge amb la comanda lsblk

```
zulema@MP04-ROMERO:/$ lsblk
NAME
      MAJ:MIN RM
                    SIZE RO TYPE MOUNTPOINTS
loop0
         7:0
                0
                   74,3M
                         1 loop /snap/core22/1612
                         1 loop /snap/bare/5
loop1
         7:1
                0
                      4K
                          1 loop /snap/core22/1663
loop2
         7:2
                0 73,9M
loop3
         7:3
                0 271,2M
                          1 loop /snap/firefox/4848
loop4
         7:4
                0 505,1M
                          1 loop /snap/gnome-42-2204/176
loop5
         7:5
                0
                  91,7M
                          1 loop /snap/gtk-common-themes/1535
                0 12,9M
                         1 loop /snap/snap-store/1113
loop6
         7:6
                   38,8M
                         1 loop /snap/snapd/21759
loop7
         7:7
                0
                    500K
                         1 loop /snap/snapd-desktop-integration/178
loop8
         7:8
                0
loop9
         7:9
               0
                    568K
                         1 loop /snap/snapd-desktop-integration/253
                          0 disk
sda
         8:0
               0
                     50G
         8:1
               0
                          0 part
 -sda1
                     1M
                    487M
                          0 part /boot/efi
 -sda2
         8:2
               0
                          0 part [SWAP]
 -sda3
         8:3
                0
                    7,6G
 -sda4
         8:4
                0
                    9,5G
                          0 part /home
-sda5
                   32,4G
         8:5
                0
                          0 part /
sdb
         8:16
                0
                      1G
                         0 disk
 -sdb1
         8:17
                0
                    100M 0 part /disc1-Romero
 -sdb2
         8:18
                0
                    400M
                         0 part /disc2-Romero
         8:19
 -sdb3
                0
                      1K
                         0 part
 -sdb5
         8:21
                0
                    250M 0 part /disc3-Romero
 -sdb6
                    248M 0 part /disc4-Romero
         8:22
                0
        11:0
                   1024M 0 rom
sr0
                1
zulema@MP04-ROMERO:/$
```