

CONSULTANDO EL ESTADO DEL SISTEMA

1º)

```
[cursoasr@asrserver ~]$ lsblk -o  
NAME,MAJ:MIN,TYPE,FSTYPE,SIZE,MOUNTPOINT
```

NAME	MAJ:MIN	TYPE	FSTYPE	SIZE	MOUNTPOINT
sda	8:0	disk		8G	
sda1	8:1	part	xfs	512M	/boot
sda2	8:2	part	swap	1G	[SWAP]
sda3	8:3	part	xfs	6.5G	/
sdb	8:16	disk		500M	
sdc	8:32	disk		500M	
sr0	11:0	rom		1024M	

- Tipos de dispositivos: Discos duros (disk), particiones de discos (part) y cd-rom (rom).
- También podemos ver el major number para ver el tipo de dispositivo, y el minor para ver su identificador dentro del tipo de dispositivo.
- Puntos de acceso (montaje): /boot, [SWAP] y /
- Tipos de sistemas de ficheros: xfs y swap.
- Tamaño total: SIZE.

2º)

```
[cursoasr@asrserver ~]$ df -Th
Filesystem      Type      Size  Used Avail Use% Mounted on
/dev/sda3       xfs       6.5G  4.6G  2.0G  71% /
devtmpfs        devtmpfs  2.0G    0    2.0G   0% /dev
tmpfs           tmpfs     2.0G    0    2.0G   0% /dev/shm
tmpfs           tmpfs     2.0G   8.9M  2.0G   1% /run
tmpfs           tmpfs     2.0G    0    2.0G   0% /sys/fs/cgroup
/dev/sda1       xfs       509M  212M  297M  42% /boot
tmpfs           tmpfs     396M   4.0K  396M   1% /run/user/42
tmpfs           tmpfs     396M   28K  396M   1% /run/user/1000
tmpfs           tmpfs     396M    0    396M   0% /run/user/0
```

- Dispositivos: FILESYSTEM
- Puntos de montaje: MOUNTED ON
- Tamaño total: SIZE
- Tamaño usado: USED
- Tamaño disponible: AVAIL

```
[cursoasr@asrserver ~]$ sudo mount -t xfs
/dev/sda3 on / type xfs
(rw,relatime,seclabel,attr2,inode64,noquota)
/dev/sda1 on /boot type xfs
(rw,relatime,seclabel,attr2,inode64,noquota)
```

PARTICIONADO

1º)

```
[cursoasr@asrserver ~]$ lsblk
NAME      MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sda        8:0    0   8G  0 disk
├─sda1     8:1    0  512M  0 part /boot
├─sda2     8:2    0   1G  0 part [SWAP]
└─sda3     8:3    0  6.5G  0 part /
sdb        8:16   0  500M  0 disk
sdc        8:32   0  500M  0 disk
sr0       11:0    1 1024M  0 rom
```

```
[cursoasr@asrserver ~]$ sudo fdisk /dev/sdb
[sudo] password for cursoasr:
Welcome to fdisk (util-linux 2.23.2).
```

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
Building a new DOS disklabel with disk identifier 0x8ed06de8.

Command (m for help): m

Command action

- a toggle a bootable flag
- b edit bsd disklabel
- c toggle the dos compatibility flag
- d delete a partition
- g create a new empty GPT partition table
- G create an IRIX (SGI) partition table
- l list known partition types
- m print this menu
- n add a new partition
- o create a new empty DOS partition table
- p print the partition table
- q quit without saving changes
- s create a new empty Sun disklabel
- t change a partition's system id
- u change display/entry units
- v verify the partition table
- w write table to disk and exit
- x extra functionality (experts only)

Command (m for help): w

The partition table has been altered!

Calling ioctl() to re-read partition table.
Syncing disks.

2°)

OK

La tercera partición no llega nunca a 100 MB debido al espacio que ocupa la tabla de particiones y otros meta-datos.

3°)

OK

4°)

OK

SISTEMAS DE FICHEROS

1°)

```
[cursoasr@asrserver ~]$ mkswap /dev/sdb3
Setting up swapon version 1, size = 101372 KiB
no label, UUID=6ce7ba3d-cc03-4592-bf34-99de7aa8312b
```

2°)

```
[cursoasr@asrserver ~]$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sda          8:0    0   8G  0 disk
├─sda1       8:1    0 512M  0 part /boot
├─sda2       8:2    0   1G  0 part [SWAP]
└─sda3       8:3    0 6.5G  0 part /
sdb          8:16    0 500M  0 disk
├─sdb1       8:17    0 200M  0 part
├─sdb2       8:18    0 200M  0 part
└─sdb3       8:19    0   99M  0 part
sdc          8:32    0 500M  0 disk
├─sdc1       8:33    0 200M  0 part
└─sdc2       8:34    0 200M  0 part
sr0         11:0    1 1024M  0 rom
```

```
[cursoasr@asrserver ~]$ swapon -s
Filename                                Type              Size  Used  Priority
/dev/sda2                               partition         1048572    0     -1
```

```
[cursoasr@asrserver ~]$ free
              total        used         free       shared  buff/cache   available
Mem:         4046668        696516       2792592         9824       557560       3056984
Swap:        1048572           0       1048572
```

```
[cursoasr@asrserver ~]$ sudo swapon /dev/sdb3
[sudo] password for cursoasr:
```

```
[cursoasr@asrserver ~]$ swapon -s
Filename                                Type              Size  Used  Priority
/dev/sda2                               partition         1048572    0     -1
/dev/sdb3                               partition         101372    0     -2
```

```
[cursoasr@asrserver ~]$ free
```

	total	used	free	shared	buff/cache	available
Mem:	4046668	697780	2791320	9828	557568	3055716
Swap:	1149944	0	1149944			

```

[cursoasr@asrserver ~]$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sda          8:0    0     8G  0 disk 
├─sda1       8:1    0   512M  0 part /boot
├─sda2       8:2    0     1G  0 part [SWAP]
└─sda3       8:3    0    6.5G  0 part /
sdb          8:16   0   500M  0 disk 
├─sdb1       8:17   0   200M  0 part 
├─sdb2       8:18   0   200M  0 part 
└─sdb3       8:19   0    99M  0 part [SWAP]
sdc          8:32   0   500M  0 disk 
├─sdc1       8:33   0   200M  0 part 
└─sdc2       8:34   0   200M  0 part 
sr0         11:0    1 1024M  0 rom

```

3º)

```

[cursoasr@asrserver ~]$ free -h

```

	total	used	free	shared	buff/cache	available
Mem:	3.9G	680M	2.7G	9.6M	544M	2.9G
Swap:	1.1G	0B	1.1G			

```

[cursoasr@asrserver ~]$ sudo swapoff /dev/sdb3
[cursoasr@asrserver ~]$ free -h

```

	total	used	free	shared	buff/cache	available
Mem:	3.9G	680M	2.7G	9.6M	544M	2.9G
Swap:	1.0G	0B	1.0G			

SISTEMA DE FICHEROS DE TIPO EXTENDIDO

1º)

```

[cursoasr@asrserver ~]$ mkfs -t ext4 /dev/sdb1
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=1024 (log=0)
Fragment size=1024 (log=0)
Stride=0 blocks, Stripe width=0 blocks
51200 inodes, 204800 blocks
10240 blocks (5.00%) reserved for the super user
First data block=1
Maximum filesystem blocks=33816576
25 block groups
8192 blocks per group, 8192 fragments per group
2048 inodes per group
Superblock backups stored on blocks:
    8193, 24577, 40961, 57345, 73729

Allocating group tables: done
Writing inode tables: done
Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done

[cursoasr@asrserver ~]$ lsblk -o NAME,FSTYPE
NAME        FSTYPE
sda
├─sda1 xfs
├─sda2 swap
└─sda3 xfs
sdb
├─sdb1 ext4
├─sdb2
└─sdb3 swap
sdc
├─sdc1
└─sdc2
sr0

```

2°)

```
[cursoasr@asrserver ~]$ tune2fs -l /dev/sdb1
tune2fs 1.42.9 (28-Dec-2013)
Filesystem volume name:   <none>
Last mounted on:         <not available>
Filesystem UUID:         a266be75-e0c3-409b-b9a8-3bdf2a4fcc31
Filesystem magic number: 0xEF53
Filesystem revision #:    1 (dynamic)
Filesystem features:      has_journal ext_attr resize_inode dir_index filetype
extent 64bit flex_bg sparse_super huge_file uninit_bg dir_nlink extra_isize
Filesystem flags:         signed_directory_hash
Default mount options:    user_xattr acl
Filesystem state:         clean
Errors behavior:          Continue
Filesystem OS type:       Linux
Inode count:              51200
Block count:              204800
Reserved block count:     10240
Free blocks:              192685
Free inodes:              51189
First block:              1
Block size:               1024
Fragment size:            1024
Group descriptor size:    64
Reserved GDT blocks:      256
Blocks per group:         8192
Fragments per group:      8192
Inodes per group:         2048
Inode blocks per group:   256
Flex block group size:    16
Filesystem created:       Mon Apr  9 09:13:05 2018
Last mount time:          n/a
Last write time:          Mon Apr  9 09:13:06 2018
Mount count:              0
Maximum mount count:      -1
Last checked:             Mon Apr  9 09:13:05 2018
Check interval:           0 (<none>)
Lifetime writes:          4449 kB
Reserved blocks uid:      0 (user root)
Reserved blocks gid:      0 (group root)
First inode:              11
Inode size:               128
Journal inode:            8
Default directory hash:   half_md4
Directory Hash Seed:      ec370dd5-6da1-4beb-941f-a8b42c27c846
Journal backup:           inode blocks
```

- Block size: 1024
- Filesystem volume name: <none>
- Cantidad reservada para el super usuario:

```
[cursoasr@asrserver ~]$ tune2fs -l /dev/sdb1 | grep root
Reserved blocks uid:      0 (user root)
Reserved blocks gid:      0 (group root)
```

```
[cursoasr@asrserver ~]$ sudo tune2fs -L "Disco de datos" /dev/sdb
tune2fs 1.42.9 (28-Dec-2013)
tune2fs: Bad magic number in super-block while trying to open /dev/sdb
Couldn't find valid filesystem superblock.
[cursoasr@asrserver ~]$ man tune2fs
[cursoasr@asrserver ~]$ sudo tune2fs -L "Disco de datos" /dev/sdb1
tune2fs 1.42.9 (28-Dec-2013)
```

```
[cursoasr@asrserver ~]$ lsblk -o NAME,LABEL
NAME    LABEL
sda
├─sda1
├─sda2
└─sda3
sdb
├─sdb1 Disco de datos
├─sdb2
└─sdb3
sdc
├─sdc1
└─sdc2
sr0
```

```
[cursoasr@asrserver ~]$ mkfs -t ext2 /dev/sdb2
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=1024 (log=0)
Fragment size=1024 (log=0)
Stride=0 blocks, Stripe width=0 blocks
51200 inodes, 204800 blocks
10240 blocks (5.00%) reserved for the super user
First data block=1
Maximum filesystem blocks=67371008
25 block groups
8192 blocks per group, 8192 fragments per group
2048 inodes per group
Superblock backups stored on blocks:
    8193, 24577, 40961, 57345, 73729
```

```
Allocating group tables: done
Writing inode tables: done
Writing superblocks and filesystem accounting information: done
```

```
[cursoasr@asrserver ~]$ sudo tune2fs -j /dev/sdb2
tune2fs 1.42.9 (28-Dec-2013)
Creating journal inode: done
```

```
[cursoasr@asrserver ~]$ blkid
/dev/sda1: UUID="dee75df3-db32-49f7-b538-52ab783b2095" TYPE="xfs"
/dev/sda2: UUID="e32551c1-69c1-4502-bffb-a65069c7fd3e" TYPE="swap"
/dev/sda3: UUID="87790199-851d-473c-ad73-66673ba01ba7" TYPE="xfs"
/dev/sdb1: UUID="b56beed4-7aa2-4fdc-be4c-015161353778" TYPE="ext4"
/dev/sdb2: UUID="dfe39d64-9c46-416d-b8ee-9c263887bb81" SEC_TYPE="ext2" TYPE="ext3"
/dev/sdb3: UUID="6ce7ba3d-cc03-4592-bf34-99de7aa8312b" TYPE="swap"
```

3°)

```
[cursoasr@asrserver ~]$ dumpe2fs /dev/sdb1
dumpe2fs 1.42.9 (28-Dec-2013)
Filesystem volume name:   <none>
Last mounted on:         <not available>
Filesystem UUID:         b56beed4-7aa2-4fdc-be4c-015161353778
Filesystem magic number:  0xEF53
Filesystem revision #:    1 (dynamic)
Filesystem features:      has_journal ext_attr resize_inode dir_index filetype extent
64bit flex_bg sparse_super huge_file uninit_bg dir_nlink extra_isize
Filesystem flags:         signed_directory_hash
Default mount options:    user_xattr acl
Filesystem state:         clean
Errors behavior:          Continue
Filesystem OS type:       Linux
Inode count:              51200
Block count:              204800
Reserved block count:     10240
Free blocks:              192685
Free inodes:              51189
First block:              1
Block size:               1024
Fragment size:            1024
Group descriptor size:    64
Reserved GDT blocks:      256
Blocks per group:         8192
Fragments per group:      8192
Inodes per group:         2048
Inode blocks per group:   256
Flex block group size:    16
Filesystem created:       Mon Apr  9 09:56:22 2018
Last mount time:          n/a
Last write time:          Mon Apr  9 09:56:22 2018
Mount count:              0
Maximum mount count:      -1
Last checked:             Mon Apr  9 09:56:22 2018
Check interval:           0 (<none>)
Lifetime writes:          4449 kB
Reserved blocks uid:      0 (user root)
Reserved blocks gid:      0 (group root)
First inode:              11
Inode size:               128
Journal inode:            8
Default directory hash:   half_md4
Directory Hash Seed:      69c8d3a0-872e-4ee7-9789-31e8d525da1b
Journal backup:           inode blocks
Journal features:         (none)
Journal size:             4096k
Journal length:           4096
Journal sequence:         0x00000001
Journal start:            0
```

Group 0: (Blocks 1-8192)

```
Checksum 0x1473, unused inodes 2037
Primary superblock at 1, Group descriptors at 2-3
Reserved GDT blocks at 4-259
Block bitmap at 260 (+259), Inode bitmap at 276 (+275)
Inode table at 292-547 (+291)
3791 free blocks, 2037 free inodes, 2 directories, 2037 unused inodes
Free blocks: 4402-8192
Free inodes: 12-2048
```

Group 1: (Blocks 8193-16384) [INODE_UNINIT]

```
Checksum 0x3e8a, unused inodes 2048
Backup superblock at 8193, Group descriptors at 8194-8195
Reserved GDT blocks at 8196-8451
Block bitmap at 261 (bg #0 + 260), Inode bitmap at 277 (bg #0 + 276)
```


Inode table at 548-803 (bg #0 + 547)
7933 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 8452-16384
Free inodes: 2049-4096

Group 2: (Blocks 16385-24576) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0x2c01, unused inodes 2048
Block bitmap at 262 (bg #0 + 261), Inode bitmap at 278 (bg #0 + 277)
Inode table at 804-1059 (bg #0 + 803)
8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 16385-24576
Free inodes: 4097-6144

Group 3: (Blocks 24577-32768) [INODE_UNINIT]
Checksum 0xa979, unused inodes 2048
Backup superblock at 24577, Group descriptors at 24578-24579
Reserved GDT blocks at 24580-24835
Block bitmap at 263 (bg #0 + 262), Inode bitmap at 279 (bg #0 + 278)
Inode table at 1060-1315 (bg #0 + 1059)
7933 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 24836-32768
Free inodes: 6145-8192

Group 4: (Blocks 32769-40960) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0x26a2, unused inodes 2048
Block bitmap at 264 (bg #0 + 263), Inode bitmap at 280 (bg #0 + 279)
Inode table at 1316-1571 (bg #0 + 1315)
8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 32769-40960
Free inodes: 8193-10240

Group 5: (Blocks 40961-49152) [INODE_UNINIT]
Checksum 0xb5bc, unused inodes 2048
Backup superblock at 40961, Group descriptors at 40962-40963
Reserved GDT blocks at 40964-41219
Block bitmap at 265 (bg #0 + 264), Inode bitmap at 281 (bg #0 + 280)
Inode table at 1572-1827 (bg #0 + 1571)
7933 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 41220-49152
Free inodes: 10241-12288

Group 6: (Blocks 49153-57344) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0xa737, unused inodes 2048
Block bitmap at 266 (bg #0 + 265), Inode bitmap at 282 (bg #0 + 281)
Inode table at 1828-2083 (bg #0 + 1827)
8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 49153-57344
Free inodes: 12289-14336

Group 7: (Blocks 57345-65536) [INODE_UNINIT]
Checksum 0x0e83, unused inodes 2048
Backup superblock at 57345, Group descriptors at 57346-57347
Reserved GDT blocks at 57348-57603
Block bitmap at 267 (bg #0 + 266), Inode bitmap at 283 (bg #0 + 282)
Inode table at 2084-2339 (bg #0 + 2083)
7933 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 57604-65536
Free inodes: 14337-16384

Group 8: (Blocks 65537-73728) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0x2bc6, unused inodes 2048
Block bitmap at 268 (bg #0 + 267), Inode bitmap at 284 (bg #0 + 283)
Inode table at 2340-2595 (bg #0 + 2339)
8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 65537-73728
Free inodes: 16385-18432

Group 9: (Blocks 73729-81920) [INODE_UNINIT]
Checksum 0xb8d8, unused inodes 2048
Backup superblock at 73729, Group descriptors at 73730-73731
Reserved GDT blocks at 73732-73987
Block bitmap at 269 (bg #0 + 268), Inode bitmap at 285 (bg #0 + 284)
Inode table at 2596-2851 (bg #0 + 2595)
7933 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 73988-81920
Free inodes: 18433-20480

Group 10: (Blocks 81921-90112) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0xaa53, unused inodes 2048
Block bitmap at 270 (bg #0 + 269), Inode bitmap at 286 (bg #0 + 285)

Inode table at 2852-3107 (bg #0 + 2851)
8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 81921-90112
Free inodes: 20481-22528

Group 11: (Blocks 90113-98304) [INODE_UNINIT]
Checksum 0xc334, unused inodes 2048
Block bitmap at 271 (bg #0 + 270), Inode bitmap at 287 (bg #0 + 286)
Inode table at 3108-3363 (bg #0 + 3107)
4096 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 94209-98304
Free inodes: 22529-24576

Group 12: (Blocks 98305-106496) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0xf0ab, unused inodes 2048
Block bitmap at 272 (bg #0 + 271), Inode bitmap at 288 (bg #0 + 287)
Inode table at 3364-3619 (bg #0 + 3363)
8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 98305-106496
Free inodes: 24577-26624

Group 13: (Blocks 106497-114688) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0x1b53, unused inodes 2048
Block bitmap at 273 (bg #0 + 272), Inode bitmap at 289 (bg #0 + 288)
Inode table at 3620-3875 (bg #0 + 3619)
8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 106497-114688
Free inodes: 26625-28672

Group 14: (Blocks 114689-122880) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0x713e, unused inodes 2048
Block bitmap at 274 (bg #0 + 273), Inode bitmap at 290 (bg #0 + 289)
Inode table at 3876-4131 (bg #0 + 3875)
8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 114689-122880
Free inodes: 28673-30720

Group 15: (Blocks 122881-131072) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0xf9f4, unused inodes 2048
Block bitmap at 275 (bg #0 + 274), Inode bitmap at 291 (bg #0 + 290)
Inode table at 4132-4387 (bg #0 + 4131)
8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 122881-131072
Free inodes: 30721-32768

Group 16: (Blocks 131073-139264) [INODE_UNINIT]
Checksum 0x4675, unused inodes 2048
Block bitmap at 131073 (+0), Inode bitmap at 131089 (+16)
Inode table at 131105-131360 (+32)
5870 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 131082-131088, 131098-131104, 133409-139264
Free inodes: 32769-34816

Group 17: (Blocks 139265-147456) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0x2dd0, unused inodes 2048
Block bitmap at 131074 (bg #16 + 1), Inode bitmap at 131090 (bg #16 + 17)
Inode table at 131361-131616 (bg #16 + 288)
8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 139265-147456
Free inodes: 34817-36864

Group 18: (Blocks 147457-155648) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0x2e89, unused inodes 2048
Block bitmap at 131075 (bg #16 + 2), Inode bitmap at 131091 (bg #16 + 18)
Inode table at 131617-131872 (bg #16 + 544)
8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 147457-155648
Free inodes: 36865-38912

Group 19: (Blocks 155649-163840) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0x684b, unused inodes 2048
Block bitmap at 131076 (bg #16 + 3), Inode bitmap at 131092 (bg #16 + 19)
Inode table at 131873-132128 (bg #16 + 800)
8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 155649-163840
Free inodes: 38913-40960

Group 20: (Blocks 163841-172032) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0xec35, unused inodes 2048
Block bitmap at 131077 (bg #16 + 4), Inode bitmap at 131093 (bg #16 + 20)
Inode table at 132129-132384 (bg #16 + 1056)

```

8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 163841-172032
Free inodes: 40961-43008
Group 21: (Blocks 172033-180224) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0x6ef9, unused inodes 2048
Block bitmap at 131078 (bg #16 + 5), Inode bitmap at 131094 (bg #16 + 21)
Inode table at 132385-132640 (bg #16 + 1312)
8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 172033-180224
Free inodes: 43009-45056
Group 22: (Blocks 180225-188416) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0x6da0, unused inodes 2048
Block bitmap at 131079 (bg #16 + 6), Inode bitmap at 131095 (bg #16 + 22)
Inode table at 132641-132896 (bg #16 + 1568)
8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 180225-188416
Free inodes: 45057-47104
Group 23: (Blocks 188417-196608) [INODE_UNINIT, BLOCK_UNINIT]
Checksum 0xe37d, unused inodes 2048
Block bitmap at 131080 (bg #16 + 7), Inode bitmap at 131096 (bg #16 + 23)
Inode table at 132897-133152 (bg #16 + 1824)
8192 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 188417-196608
Free inodes: 47105-49152
Group 24: (Blocks 196609-204799) [INODE_UNINIT]
Checksum 0x475f, unused inodes 2048
Block bitmap at 131081 (bg #16 + 8), Inode bitmap at 131097 (bg #16 + 24)
Inode table at 133153-133408 (bg #16 + 2080)
8191 free blocks, 2048 free inodes, 0 directories, 2048 unused inodes
Free blocks: 196609-204799
Free inodes: 49153-51200
[cursoasr@asrserver ~]$ dumpe2fs /dev/sdb2
dumpe2fs 1.42.9 (28-Dec-2013)
Filesystem volume name: <none>
Last mounted on: <not available>
Filesystem UUID: dfe39d64-9c46-416d-b8ee-9c263887bb81
Filesystem magic number: 0xEF53
Filesystem revision #: 1 (dynamic)
Filesystem features: has_journal ext_attr resize_inode dir_index filetype
sparse_super
Filesystem flags: signed_directory_hash
Default mount options: user_xattr acl
Filesystem state: clean
Errors behavior: Continue
Filesystem OS type: Linux
Inode count: 51200
Block count: 204800
Reserved block count: 10240
Free blocks: 192674
Free inodes: 51189
First block: 1
Block size: 1024
Fragment size: 1024
Reserved GDT blocks: 256
Blocks per group: 8192
Fragments per group: 8192
Inodes per group: 2048
Inode blocks per group: 256
Filesystem created: Mon Apr 9 09:56:32 2018
Last mount time: n/a
Last write time: Mon Apr 9 09:56:57 2018
Mount count: 0
Maximum mount count: -1
Last checked: Mon Apr 9 09:56:32 2018
Check interval: 0 (<none>)
Reserved blocks uid: 0 (user root)
Reserved blocks gid: 0 (group root)
First inode: 11
Inode size: 128
Journal inode: 8
Default directory hash: half_md4

```

Directory Hash Seed: 56e6b975-0dd1-4a2f-a5df-ac7acd8a9a98
Journal backup: inode blocks
Journal features: (none)
Journal size: 4113k
Journal length: 4096
Journal sequence: 0x00000001
Journal start: 0

Group 0: (Blocks 1-8192)

Primary superblock at 1, Group descriptors at 2-2
Reserved GDT blocks at 3-258
Block bitmap at 259 (+258), Inode bitmap at 260 (+259)
Inode table at 261-516 (+260)
7662 free blocks, 2037 free inodes, 2 directories
Free blocks: 531-8192
Free inodes: 12-2048

Group 1: (Blocks 8193-16384)

Backup superblock at 8193, Group descriptors at 8194-8194
Reserved GDT blocks at 8195-8450
Block bitmap at 8451 (+258), Inode bitmap at 8452 (+259)
Inode table at 8453-8708 (+260)
7676 free blocks, 2048 free inodes, 0 directories
Free blocks: 8709-16384
Free inodes: 2049-4096

Group 2: (Blocks 16385-24576)

Block bitmap at 16385 (+0), Inode bitmap at 16386 (+1)
Inode table at 16387-16642 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 16643-24576
Free inodes: 4097-6144

Group 3: (Blocks 24577-32768)

Backup superblock at 24577, Group descriptors at 24578-24578
Reserved GDT blocks at 24579-24834
Block bitmap at 24835 (+258), Inode bitmap at 24836 (+259)
Inode table at 24837-25092 (+260)
7676 free blocks, 2048 free inodes, 0 directories
Free blocks: 25093-32768
Free inodes: 6145-8192

Group 4: (Blocks 32769-40960)

Block bitmap at 32769 (+0), Inode bitmap at 32770 (+1)
Inode table at 32771-33026 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 33027-40960
Free inodes: 8193-10240

Group 5: (Blocks 40961-49152)

Backup superblock at 40961, Group descriptors at 40962-40962
Reserved GDT blocks at 40963-41218
Block bitmap at 41219 (+258), Inode bitmap at 41220 (+259)
Inode table at 41221-41476 (+260)
7676 free blocks, 2048 free inodes, 0 directories
Free blocks: 41477-49152
Free inodes: 10241-12288

Group 6: (Blocks 49153-57344)

Block bitmap at 49153 (+0), Inode bitmap at 49154 (+1)
Inode table at 49155-49410 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 49411-57344
Free inodes: 12289-14336

Group 7: (Blocks 57345-65536)

Backup superblock at 57345, Group descriptors at 57346-57346
Reserved GDT blocks at 57347-57602
Block bitmap at 57603 (+258), Inode bitmap at 57604 (+259)
Inode table at 57605-57860 (+260)
7676 free blocks, 2048 free inodes, 0 directories
Free blocks: 57861-65536
Free inodes: 14337-16384

Group 8: (Blocks 65537-73728)

Block bitmap at 65537 (+0), Inode bitmap at 65538 (+1)
Inode table at 65539-65794 (+2)
7934 free blocks, 2048 free inodes, 0 directories

Free blocks: 65795-73728
Free inodes: 16385-18432
Group 9: (Blocks 73729-81920)
Backup superblock at 73729, Group descriptors at 73730-73730
Reserved GDT blocks at 73731-73986
Block bitmap at 73987 (+258), Inode bitmap at 73988 (+259)
Inode table at 73989-74244 (+260)
7676 free blocks, 2048 free inodes, 0 directories
Free blocks: 74245-81920
Free inodes: 18433-20480
Group 10: (Blocks 81921-90112)
Block bitmap at 81921 (+0), Inode bitmap at 81922 (+1)
Inode table at 81923-82178 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 82179-90112
Free inodes: 20481-22528
Group 11: (Blocks 90113-98304)
Block bitmap at 90113 (+0), Inode bitmap at 90114 (+1)
Inode table at 90115-90370 (+2)
3821 free blocks, 2048 free inodes, 0 directories
Free blocks: 94484-98304
Free inodes: 22529-24576
Group 12: (Blocks 98305-106496)
Block bitmap at 98305 (+0), Inode bitmap at 98306 (+1)
Inode table at 98307-98562 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 98563-106496
Free inodes: 24577-26624
Group 13: (Blocks 106497-114688)
Block bitmap at 106497 (+0), Inode bitmap at 106498 (+1)
Inode table at 106499-106754 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 106755-114688
Free inodes: 26625-28672
Group 14: (Blocks 114689-122880)
Block bitmap at 114689 (+0), Inode bitmap at 114690 (+1)
Inode table at 114691-114946 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 114947-122880
Free inodes: 28673-30720
Group 15: (Blocks 122881-131072)
Block bitmap at 122881 (+0), Inode bitmap at 122882 (+1)
Inode table at 122883-123138 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 123139-131072
Free inodes: 30721-32768
Group 16: (Blocks 131073-139264)
Block bitmap at 131073 (+0), Inode bitmap at 131074 (+1)
Inode table at 131075-131330 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 131331-139264
Free inodes: 32769-34816
Group 17: (Blocks 139265-147456)
Block bitmap at 139265 (+0), Inode bitmap at 139266 (+1)
Inode table at 139267-139522 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 139523-147456
Free inodes: 34817-36864
Group 18: (Blocks 147457-155648)
Block bitmap at 147457 (+0), Inode bitmap at 147458 (+1)
Inode table at 147459-147714 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 147715-155648
Free inodes: 36865-38912
Group 19: (Blocks 155649-163840)
Block bitmap at 155649 (+0), Inode bitmap at 155650 (+1)
Inode table at 155651-155906 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 155907-163840
Free inodes: 38913-40960
Group 20: (Blocks 163841-172032)


```

Block bitmap at 163841 (+0), Inode bitmap at 163842 (+1)
Inode table at 163843-164098 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 164099-172032
Free inodes: 40961-43008
Group 21: (Blocks 172033-180224)
Block bitmap at 172033 (+0), Inode bitmap at 172034 (+1)
Inode table at 172035-172290 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 172291-180224
Free inodes: 43009-45056
Group 22: (Blocks 180225-188416)
Block bitmap at 180225 (+0), Inode bitmap at 180226 (+1)
Inode table at 180227-180482 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 180483-188416
Free inodes: 45057-47104
Group 23: (Blocks 188417-196608)
Block bitmap at 188417 (+0), Inode bitmap at 188418 (+1)
Inode table at 188419-188674 (+2)
7934 free blocks, 2048 free inodes, 0 directories
Free blocks: 188675-196608
Free inodes: 47105-49152
Group 24: (Blocks 196609-204799)
Block bitmap at 196609 (+0), Inode bitmap at 196610 (+1)
Inode table at 196611-196866 (+2)
7933 free blocks, 2048 free inodes, 0 directories
Free blocks: 196867-204799
Free inodes: 49153-51200

```

4°)

```

[cursoasr@asrserver ~]$ fsck /dev/sdb1
fsck from util-linux 2.23.2
e2fsck 1.42.9 (28-Dec-2013)
/dev/sdb1: clean, 11/51200 files, 12115/204800 blocks

[cursoasr@asrserver ~]$ fsck /dev/sdb2
fsck from util-linux 2.23.2
e2fsck 1.42.9 (28-Dec-2013)
/dev/sdb2: clean, 11/51200 files, 12126/204800 blocks

[cursoasr@asrserver ~]$ dd if=/dev/zero of=/dev/sdb1 seek=1 bs=1024 count=1
1+0 records in
1+0 records out
1024 bytes (1.0 kB) copied, 0.00159041 s, 644 kB/s

[cursoasr@asrserver ~]$ fsck /dev/sdb1
fsck from util-linux 2.23.2
e2fsck 1.42.9 (28-Dec-2013)
ext2fs_open2: Bad magic number in super-block
fsck.ext2: Superblock invalid, trying backup blocks...
/dev/sdb1 was not cleanly unmounted, check forced.
Pass 1: Checking inodes, blocks, and sizes
Pass 2: Checking directory structure
Pass 3: Checking directory connectivity
Pass 4: Checking reference counts
Pass 5: Checking group summary information

/dev/sdb1: ***** FILE SYSTEM WAS MODIFIED *****
/dev/sdb1: 11/51200 files (0.0% non-contiguous), 12115/204800 blocks

[cursoasr@asrserver ~]$ fsck /dev/sdb1
fsck from util-linux 2.23.2
e2fsck 1.42.9 (28-Dec-2013)
/dev/sdb1: clean, 11/51200 files, 12115/204800 blocks

[cursoasr@asrserver ~]$ tune2fs -l /dev/sdb1 | grep -i "block size"
Block size:                1024

```

Nota : en este comando el tamaño de bloque (bs) es el tamaño de bloque del sistema de ficheros, ¿cómo se puede determinar el valor adecuado?. Además se empieza a escribir en el bloque 1, ¿por qué?

5º)

```
mkdir Disco2
```

```
sudo mount -t ext4 /dev/sdb1 Disco2
```

```
cd Disco2
```

```
[cursoasr@asrserver Disco2]$ mount | grep /dev/sdb1
/dev/sdb1 on /home/cursoasr/Disco2 type ext4 (rw,relatime,seclabel,data=ordered)
```

```
[cursoasr@asrserver Disco2]$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
/dev/sda3        6801408 4800948   2000460   71% /
devtmpfs         2008308      0    2008308    0% /dev
tmpfs            2023332      0    2023332    0% /dev/shm
tmpfs            2023332    8976    2014356    1% /run
tmpfs            2023332      0    2023332    0% /sys/fs/cgroup
/dev/sda1        520876 216772   304104   42% /boot
tmpfs            404668      4    404664    1% /run/user/42
tmpfs            404668     32    404636    1% /run/user/1000
/dev/sdb1        194235   1550   178349    1% /home/cursoasr/Disco2
```

Physical volume (PV)

EJERCICIO 1

Opcion -t en el menu de fdisk, luego 8e.

EJERCICIO 2

```
sudo pvcreate /dev/sdb1
```

```
sudo pvcreate /dev/sdb2
```

EJERCICIO 3

```
[cursoasr@asrserver ~]$ sudo pvs
```

PV	VG	Fmt	Attr	PSize	PFree
/dev/sdb1		lvm2	---	200.00m	200.00m
/dev/sdb2		lvm2	---	200.00m	200.00m

```
[cursoasr@asrserver ~]$ sudo pvdisplay /dev/sdb1
"/dev/sdb1" is a new physical volume of "200.00 MiB"
--- NEW Physical volume ---
PV Name                /dev/sdb1
VG Name
PV Size                200.00 MiB
Allocatable            NO
PE Size                0
Total PE               0
Free PE               0
Allocated PE          0
PV UUID                AMU3uS-SZ9t-ALXM-00Bl-5AIM-lB9I-YmmLzT
```

```
[cursoasr@asrserver ~]$ sudo pvdisplay /dev/sdb2
"/dev/sdb2" is a new physical volume of "200.00 MiB"
```

--- NEW Physical volume ---

PV Name	/dev/sdb2
VG Name	
PV Size	200.00 MiB
Allocatable	NO
PE Size	0
Total PE	0
Free PE	0
Allocated PE	0
PV UUID	cRavJX-37JF-wDdX-wFWo-KX8h-2mtr-iDSVXy

Volume group (VG)

EJERCICIO 1

```
sudo vgcreate practica5 /dev/sdb1 /dev/sdb2
```

EJERCICIO 2

```
[cursoasr@asrserver ~]$ sudo vgdisplay practica5
```

--- Volume group ---

VG Name	practica5
System ID	
Format	lvm2
Metadata Areas	2
Metadata Sequence No	1
VG Access	read/write
VG Status	resizable
MAX LV	0
Cur LV	0
Open LV	0
Max PV	0
Cur PV	2
Act PV	2
VG Size	392.00 MiB
PE Size	4.00 MiB
Total PE	98
Alloc PE / Size	0 / 0
Free PE / Size	98 / 392.00 MiB

VG UUID JnQ1B9-V90u-PeA2-FpdD-7AYp-ONr5-rM48If

```
[cursoasr@asrserver ~]$ sudo vgs
VG          #PV #LV #SN Attr   VSize   VFree
practica5    2  0  0 wz--n- 392.00m 392.00m
```

EJERCICIO 3

```
[cursoasr@asrserver ~]$ sudo vgscan
Reading volume groups from cache.
Found volume group "practica5" using metadata type lvm2
```

EJERCICIO 4

```
sudo vgextend practica5 /dev/sdc1
```

```
[cursoasr@asrserver ~]$ sudo vgdisplay -v
--- Volume group ---
VG Name                practica5
System ID
Format                 lvm2
Metadata Areas         3
Metadata Sequence No   2
VG Access               read/write
VG Status               resizable
MAX LV                 0
Cur LV                 0
Open LV                 0
Max PV                 0
Cur PV                 3
Act PV                 3
VG Size                 588.00 MiB
PE Size                 4.00 MiB
Total PE                147
Alloc PE / Size         0 / 0
```

```
Free PE / Size      147 / 588.00 MiB
VG UUID             JnQ1B9-V90u-PeA2-FpdD-7AYp-ONr5-rM48If
```

--- Physical volumes ---

```
PV Name             /dev/sdb1
PV UUID             AMU3uS-SZ9t-ALXM-00Bl-5AIM-lB9I-YmmLzT
PV Status            allocatable
Total PE / Free PE  49 / 49
```

```
PV Name             /dev/sdb2
PV UUID             cRavJX-37JF-wDdX-wFWo-KX8h-2mtr-iDSVXy
PV Status            allocatable
Total PE / Free PE  49 / 49
```

```
PV Name             /dev/sdc1
PV UUID             DvNoru-0N2w-nB7E-v6kG-Ks8A-yvVh-PrksHW
PV Status            allocatable
Total PE / Free PE  49 / 49
```

Logical Volume (LV)

EJERCICIO 1

```
sudo lvcreate -n "vol1" -L 200M practica5
```

EJERCICIO 2

```
[cursoasr@asrserver ~]$ sudo lvdisplay practica5
```

```
[sudo] password for cursoasr:
```

--- Logical volume ---

```
LV Path              /dev/practica5/vol1
LV Name              vol1
VG Name              practica5
LV UUID              PnB2o9-v0UE-WeKL-owoI-wa10-Fh8m-1Lst3C
LV Write Access      read/write
LV Creation host, time asrserver, 2018-04-16 13:55:20 +0200
LV Status             available
# open               0
LV Size              200.00 MiB
Current LE            50
Segments             2
Allocation            inherit
Read ahead sectors    auto
- currently set to    8192
Block device          253:0
```

```
[cursoasr@asrserver ~]$ sudo lvs
```

```
[sudo] password for cursoasr:
```

LV	VG	Attr	LSize	Pool	Origin	Data%	Meta%	Move	Log	Cpy%	Sync
Convert											
	vol1	practica5	-wi-a-----	200.00m							

EJERCICIO 3

```
[cursoasr@asrserver ~]$ mkfs -t ext4 /dev/practica5/vol1
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=1024 (log=0)
Fragment size=1024 (log=0)
Stride=0 blocks, Stripe width=0 blocks
51200 inodes, 204800 blocks
10240 blocks (5.00%) reserved for the super user
First data block=1
Maximum filesystem blocks=33816576
25 block groups
8192 blocks per group, 8192 fragments per group
2048 inodes per group
Superblock backups stored on blocks:
    8193, 24577, 40961, 57345, 73729

Allocating group tables: done
Writing inode tables: done
Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done

mkdir mp
[cursoasr@asrserver mp]$ sudo mount /dev/practica5/vol1 mp

[cursoasr@asrserver mp]$ df -h /dev/practica5/vol1
Filesystem                Size      Used Avail Use% Mounted on
/dev/mapper/practica5-vol1 190M    1.6M   175M   1% /home/cursoasr/mp

[cursoasr@asrserver mp]$ cd ..
[cursoasr@asrserver ~]$ sudo umount mp
```

EJERCICIO 4

```
[cursoasr@asrserver ~]$ sudo lvcreate -n "vol2" -l +100%FREE practica5

[cursoasr@asrserver ~]$ mkfs -t ext4 /dev/practica5/vol2
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=1024 (log=0)
Fragment size=1024 (log=0)
Stride=0 blocks, Stripe width=0 blocks
48192 inodes, 192512 blocks
9625 blocks (5.00%) reserved for the super user
First data block=1
Maximum filesystem blocks=33816576
24 block groups
8192 blocks per group, 8192 fragments per group
2008 inodes per group
Superblock backups stored on blocks:
    8193, 24577, 40961, 57345, 73729

Allocating group tables: done
Writing inode tables: done
```

Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done

```
[cursoasr@asrserver ~]$ sudo umount /dev/sdc2
```

```
[cursoasr@asrserver ~]$ sudo vgextend practica5 /dev/sdc2
```

```
[cursoasr@asrserver ~]$ sudo lvextend /dev/practica5/vol2 -l +100%FREE
Size of logical volume practica5/vol2 changed from 188.00 MiB (47 extents) to 384.00 MiB (96 extents).
Logical volume practica5/vol2 successfully resized.
```

```
[cursoasr@asrserver ~]$ sudo e2fsck /dev/practica5/vol2
e2fsck 1.42.9 (28-Dec-2013)
/dev/practica5/vol2: clean, 11/48192 files, 11737/192512 blocks
```

```
[cursoasr@asrserver ~]$ sudo resize2fs /dev/practica5/vol2
resize2fs 1.42.9 (28-Dec-2013)
Resizing the filesystem on /dev/practica5/vol2 to 393216 (1k) blocks.
The filesystem on /dev/practica5/vol2 is now 393216 blocks long.
```

```
[cursoasr@asrserver ~]$ sudo e2fsck /dev/practica5/vol2
e2fsck 1.42.9 (28-Dec-2013)
/dev/practica5/vol2: clean, 11/96384 files, 18327/393216 blocks
```

SISTEMAS DE FICHEROS ENCRIPTADOS

EJERCICIO 1

```
[cursoasr@asrserver ~]$ cryptsetup luksFormat /dev/sdc3 → YES
```

EJERCICIO 2

```
[cursoasr@asrserver ~]$ cryptsetup luksDump /dev/sdc3
LUKS header information for /dev/sdc3
```

```
Version:          1
Cipher name:      aes
Cipher mode:      xts-plain64
Hash spec:        sha256
Payload offset:   4096
MK bits:          256
MK digest:        88 ed 3e 85 55 f0 85 74 a0 a8 f9 a1 8b a4 2e 46 a7 9f 90 34
MK salt:          24 82 7e 4b 4d 80 b4 c2 4e 93 1b 9d fe 51 51 fb
                  0b bc 8c c3 21 31 08 dd 23 bd f2 2e aa 3a bf 27
MK iterations:    70250
UUID:             65a56096-5282-42bc-8eec-fba3e8427d5f
```

```
Key Slot 0: ENABLED
    Iterations:          564498
    Salt:                5b 69 c1 be bd a6 27 6d b5 d0 e5 4e f6 5c 1f 02
                        16 06 bb aa d7 a8 cb 70 25 2a 66 32 48 2f 21 ce
    Key material offset: 8
    AF stripes:          4000
Key Slot 1: DISABLED
Key Slot 2: DISABLED
Key Slot 3: DISABLED
Key Slot 4: DISABLED
Key Slot 5: DISABLED
Key Slot 6: DISABLED
Key Slot 7: DISABLED
```

EJERCICIO 3

```
[cursoasr@asrserver mapper]$ sudo cryptsetup luksOpen /dev/sdc3 "encriptado"
```

```
[cursoasr@asrserver ~]$ ls -l /dev/mapper
```

```
total 0
crw-----. 1 root root 10, 236 Apr 18 16:17 control
lrwxrwxrwx. 1 root root      7 Apr 18 17:04 encriptado -> ../dm-1
lrwxrwxrwx. 1 root root      7 Apr 18 16:17 mi_vol-vol1 -> ../dm-0
lrwxrwxrwx. 1 root root      7 Apr 18 16:17 mi_vol-vol3 -> ../dm-3
```

EJERCICIO 4

```
[cursoasr@asrserver ~]$ mkfs -t ext4 /dev/mapper/encriptado
```

```
mke2fs 1.42.9 (28-Dec-2013)
```

```
Filesystem label=
```

```
OS type: Linux
```

```
Block size=1024 (log=0)
```

```
Fragment size=1024 (log=0)
```

```
Stride=0 blocks, Stripe width=0 blocks
```

```
24856 inodes, 99328 blocks
```

```
4966 blocks (5.00%) reserved for the super user
```

```
First data block=1
```

```
Maximum filesystem blocks=33685504
```

```
13 block groups
```

```
8192 blocks per group, 8192 fragments per group
```

```
1912 inodes per group
```

```
Superblock backups stored on blocks:
```

```
8193, 24577, 40961, 57345, 73729
```

```
Allocating group tables: done
```

```
Writing inode tables: done
```

```
Creating journal (4096 blocks): done
```

```
Writing superblocks and filesystem accounting information: done
```

```
[cursoasr@asrserver ~]$ sudo mount /dev/mapper/encriptado mp
```

```
[cursoasr@asrserver ~]$ sudo umount /dev/mapper/encriptado
```

```
[cursoasr@asrserver ~]$ sudo cryptsetup luksClose /dev/mapper/encriptado
```

GESTIÓN DE SISTEMAS DE FICHEROS

EJERCICIO 1

```
[cursoasr@asrserver ~]$ cat /etc/fstab
```

```
#
# /etc/fstab
# Created by anaconda on Wed Feb 10 11:01:16 2016
#
# Accessible filesystems, by reference, are maintained under '/dev/disk'
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info
#
UUID=87790199-851d-473c-ad73-66673ba01ba7 / xfs defaults 0 0
UUID=dee75df3-db32-49f7-b538-52ab783b2095 /boot xfs defaults 0 0
UUID=e32551c1-69c1-4502-bffb-a65069c7fd3e swap swap defaults 0 0
```

EJERCICIO 2 y 3

```
sudo vim /etc/fstab
```

```
UUID="1f8edd2e-6958-40ff-afa4-2cd033bd1e6a" /home/cursoasr/mp ext4 defaults 0 0
sudo reboot
```

EJERCICIO 4

```
OK
```