- ·Data at rest
- ·Data in motion

LVM(LOGIC VOLUME MANAGEMENT)→ens permet ampliar sense necesitat de saber com es diuen

Es convinen en grups de volums esta dividit en un o mes volums logics i utilitzen els mateixos sistemes de fitxers.

```
isx47320900@i12:~$ dd if=/dev/zero of=disk01.img bs=1k count=100K
102400+0 records in
102400+0 records out
104857600 bytes (105 MB, 100 MiB) copied, 0.195543 s, 536 MB/s
isx47320900@il2:~$ dd if=/dev/zero of=disk02.img bs=lk count=100K
102400+0 records in
102400+0 records out
104857600 bytes (105 MB, 100 MiB) copied, 0.204695 s, 512 MB/s
isx47320900@il2:~$ dd if=/dev/zero of=disk03.img bs=lk count=100K
102400+0 records in
102400+0 records out
104857600 bytes (105 MB, 100 MiB) copied, 0.197206 s, 532 MB/s
isx47320900@i12:~$ sudo losetup /dev/loop0 disk01.img
isx47320900@i12:~$ sudo losetup /dev/loop1 disk02.img
isx47320900@i12:~$ sudo losetup /dev/loop2 disk03.img
isx47320900@i12:~$ sudo losetup -a
/dev/loop1: [66306]:6956940 (/home/users/inf/hisx2/isx47320900/disk02.img)
/dev/loop2: [66306]:6956941 (/home/users/inf/hisx2/isx47320900/disk03.img)
/dev/loop0: [66306]:6956856 (/home/users/inf/hisx2/isx47320900/disk01.img)
Creem com si fosin 3 disc o 3 particions
isx47320900@i12:~$ sudo pvcreate /dev/loop0 /dev/loop1 /dev/loop2
  Physical volume "/dev/loop0" successfully created.
  Physical volume "/dev/loop1" successfully created.
  Physical volume "/dev/loop2" successfully created.
es declaren com volums fisics
isx47320900@i12:~$ sudo pvdisplay /dev/loop0
  "/dev/loop0" is a new physical volume of "100.00 MiB"
  --- NEW Physical volume ---
  PV Name
                          /dev/loop0
  VG Name
  PV Size
                          100.00 MiB
  Allocatable
                          NO
  PE Size
                          0
  Total PE
                          0
  Free PE
                          0
  Allocated PE
  PV UUID
                          d60hh8-phhW-7MTb-tMP9-ond0-L0ct-tBsPGE
```

Mostra els dispositius fisics

```
isx47320900@i12:~$ sudo vgcreate diskedt /dev/loop0 /dev/loop1
 Volume group "diskedt" successfully created
isx47320900@i12:~$ sudo vgdisplay diskedt
 --- Volume group ---
 VG Name
                        diskedt
  System ID
                        lvm2
  Format
 Metadata Areas
                       2
 Metadata Sequence No 1
 VG Access
                      read/write
                      resizable
 VG Status
 MAX LV
 Cur LV
  Open LV
                       0
 Max PV
                       0
 Cur PV
                       2
 Act PV
                      2
                      192.00 MiB
 VG Size
 PE Size
                      4.00 MiB
 Total PE
                      48
 Alloc PE / Size 0 / 0
Free PE / Size 48 / 192.00 MiB
 VG UUID
                        BJWN5N-zXK6-skb7-bWxi-h99D-bcwA-fG9swY
```

Creem una unitat de disc a partir de un volum group i veiem que te 2 metadata areas que son els fragments del que esta format y e lliure 192MiB

```
isx47320900@i12:~$ sudo pvdisplay /dev/loop0
 --- Physical volume ---
 PV Name
                        /dev/loop0
 VG Name
                        diskedt
 PV Size
                        100.00 MiB / not usable 4.00 MiB
 Allocatable
                        yes
 PE Size
                        4.00 MiB
 Total PE
                        24
 Free PE
                        24
 Allocated PE
 PV UUID
                        d60hh8-phhW-7MTb-tMP9-ond0-L0ct-tBsPGE
```

La unitat basica d'asignacio son els Pe(espai restant 4*24 96(ens ha tret un 4%)) y crea una mena d'estanteria d'informació

```
isx47320900@i12:/var/tmp/imatges$ sudo lvcreate -L 50M -n sistema /dev/diskedt
  Rounding up size to full physical extent 52.00 MiB
  Logical volume "sistema" created.
isx47320900@il2:/var/tmp/imatges$ sudo lvcreate -L 150M -n dades /dev/diskedt
  Rounding up size to full physical extent 152.00 MiB
 Volume group "diskedt" has insufficient free space (35 extents): 38 required.
particions logicas Logical volume(LV)
no podem fer els 100 peruque com es divideix en blocs de 4 no deixa
mirar -l
isx47320900@i12:/var/tmp/imatges$ sudo lvdisplay
  --- Logical volume ---
  LV Path
                           /dev/diskedt/sistema
  LV Name
                           sistema
  VG Name
                           diskedt
                           NEygGN-L06s-WrNG-eGh7-jC30-ZKRF-u6YJC0
  LV UUID
  LV Write Access
                           read/write
  LV Creation host, time i12, 2022-02-10 12:32:49 +0100
                           available
  LV Status
  # open
  LV Size
                           52.00 MiB
  Current LE
                           13
  Segments
  Allocation
                           inherit
  Read ahead sectors
                           auto

    currently set to

                           256
  Block device
                           254:0
isx47320900@il2:/var/tmp/imatges$ sudo lvcreate -l100%FREE -n dades /dev/diskedt
 Logical volume "dades" created.
 --- Logical volume ---
 LV Path
                          /dev/diskedt/dades
 LV Name
                          dades
 VG Name
                          diskedt
 LV UUID
                          P9rg1w-CojD-U2Hc-LCkB-GLHD-Deqy-IlSlsx
 LV Write Access
                          read/write
 LV Creation host, time i12, 2022-02-10 12:37:03 +0100
 LV Status
                          available
 # open
 LV Size
                          140.00 MiB
 Current LE
                          35
 Segments
 Allocation
                          inherit
 Read ahead sectors
                          auto
 - currently set to
                          256
 Block device
                          254:1
```

sistema cap en 1 volum i daes necesita espai dels 2

```
isx47320900@il2:/var/tmp/imatges$ sudo mkfs -t ext4 /dev/diskedt/sistema
mke2fs 1.46.2 (28-Feb-2021)
Discarding device blocks: done
Creating filesystem with 53248 1k blocks and 13328 inodes
 Filesystem UUID: 2800898a-23e3-42fb-8f30-c0c1a48607fd
Superblock backups stored on blocks:
                 8193, 24577, 40961
Allocating group tables: done
Writing inode tables: done
Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done
isx47320900@il2:/var/tmp/imatges$ sudo mount /dev/diskedt/sistema /mnt/sistema/
isx47320900@il2:/var/tmp/imatges$ sudo mount /dev/diskedt/sistema /mnt/
dades/
                      nfs share/ sistema/
isx47320900@il2:/var/tmp/imatges$ sudo mount /dev/diskedt/dades /mnt/dades/
isx47320900@il2:/var/tmp/imatges$ sudo cp /bin/?? /mnt/sistema/
isx47320900@i12:/var/tmp/imatges$ ls /mnt/sistema/
7z ar bc cp df ex gs id jq ln
                                                                                     lp mc mv nl od ps rm sh su ul wc
ab as cc dd du gc hd ip ld<u>lost+found</u> ls mt nc nm pr ri sg ss tr vi xz
isx47320900@il2:/var/tmp/imatges$ df -H
Filesystem
                                                                      Size Used Avail Use% Mounted on
udev
                                                                      8.3G
                                                                                           0 8.3G
                                                                                                                 0% /dev
 tmpfs
                                                                      1.7G
                                                                                  1.9M 1.7G
                                                                                                                  1% /run
 /dev/nvme0n1p5
                                                                      196G
                                                                                      28G 159G 15% /
                                                                                      63M 8.3G
 tmpfs
                                                                     8.4G
                                                                                                                1% /dev/shm
 tmpfs
                                                                                  4.1k 5.3M
                                                                     5.3M
                                                                                                                  1% /run/lock
 tmpfs
                                                                      1.7G
                                                                                  914k 1.7G
                                                                                                                 1% /run/user/103054
                                                                                  343G 658G 35% /home/groups
 gandhi:/groups
                                                                      1.0T
 /dev/mapper/diskedt-sistema
                                                                       48M
                                                                                      16M
                                                                                                    29M 35% /mnt/sistema
 /dev/mapper/diskedt-dades
                                                                     137M 15k
                                                                                                  127M
                                                                                                                  1% /mnt/dades
isx47320900@i12:/var/tmp/imatges$ sudo blkid
/dev/nvme0nlp5: LABEL="DEBIAN MATI" UUID="db4c5dc5-09bd-4d7c-b924-e25c9aed0801" BLOCK SIZE="4096" TYPE="e
xt4" PARTUUID="35896dcb-05"
/dev/nvme0n1p6: LABEL="DEBIAN TARDA" UUID="07ec6457-68d9-4b72-9b6c-69f694b44a21" BLOCK SIZE="4096" TYPE="
ext4" PARTUUID="35896dcb-06"
/dev/nvme0nlp7: UUID="0fd74991-b88d-4bec-alf4-cld73aef80b3" TYPE="swap" PARTUUID="35896dcb-07"
/dev/loop1: UUID="8sgAba-dd9y-cmzw-R5G3-Jn9Z-FbPm-cLt0dc" TYPE="LVM2 member"
/dev/loop2: UUID="6d650B-ZBp1-dWxy-anZk-MS5j-MN1u-kGw4c0" TYPE="LVM2_member" /dev/loop3: UUID="4tuXWF-zbKZ-3zZI-NmI4-d2Ko-Z8xD-4Ls7UZ" TYPE="LVM2_member"
/dev/mapper/diskedt-sistema: UUID="2800898a-23e3-42fb-8f30-c0c1a48607fd" BLOCK SIZE="1024" TYPE="ext4"
/dev/mapper/diskedt-dades: \ UUID="97c1f64b-788c-4f25-bf9d-a8b6277ac0dd" \ BLOCK\_SIZE="1024" \ TYPE="ext4" \ Abstraction of the content of
```

```
isx47320900@i12:/var/tmp/imatges$ lsblk
NAME
                   MAJ:MIN RM
                                SIZE RO TYPE MOUNTPOINT
                                100M 0 loop
loop1
                     7:1
                            0
⊢diskedt-sistema 254:0
                            0
                                 52M
                                      0 lvm /mnt/sistema
 -diskedt-dades
                   254:1
                            0
                                140M 0 lvm
                                             /mnt/dades
loop2
                     7:2
                            0
                                100M 0 loop
└─diskedt-dades
                   254:1
                            0
                                140M 0 lvm /mnt/dades
                          0
loop3
                     7:3
                                100M 0 loop
nvme0n1
                   259:0
                            0 465.8G 0 disk
 -nvme0n1p1
                   259:1
                            0
                                  1K 0 part
                            0 186.3G 0 part /
                   259:2
 -nvme0n1p5
 -nvme0n1p6
                   259:3
                            0 186.3G 0 part
 -nvme0n1p7
                   259:4
                                4.7G
                                      0 part [SWAP]
                            0
isx47320900@i12:/var/tmp/imatges$ sudo cp /bin/?? /mnt/dades/
isx47320900@i12:/var/tmp/imatges$ lsblk
NAME
                 MAJ:MIN RM
                             SIZE RO TYPE MOUNTPOINT
loop1
                   7:1
                       0
                             100M 0 loop
 -diskedt-sistema 254:0
                         0
                             52M 0 lvm /mnt/sistema
└─diskedt-dades
                 254:1
                        0 140M 0 lvm /mnt/dades
loop2
                   7:2
                        0 100M 0 loop
└─diskedt-dades
                        0
                             140M 0 lvm /mnt/dades
                 254:1
                       0
loop3
                   7:3
                             100M 0 loop
nvme0n1
                 259:0 0 465.8G 0 disk
-nvme0n1p1
                259:1 0
                               1K 0 part
 -nvme0n1p5
                259:2
                        0 186.3G 0 part /
nvme0n1p6
nvme0n1p7
                 259:3 0 186.3G 0 part
                 259:4
                         0 4.7G 0 part [SWAP]
isx47320900@i12:/var/tmp/imatges$ df -H
Filesystem
                           Size Used Avail Use% Mounted on
                           8.3G
udev
                                   0 8.3G 0% /dev
tmpfs
                           1.7G 1.9M 1.7G 1% /run
/dev/nvme0n1p5
                           196G
                                 28G 158G 15% /
                                 76M 8.3G
tmpfs
                           8.4G
                                           1% /dev/shm
                           5.3M 4.1k 5.3M
tmpfs
                                             1% /run/lock
tmpfs
                           1.7G 914k 1.7G
                                           1% /run/user/103054
gandhi:/groups
                           1.0T
                                 343G 658G 35% /home/groups
/dev/mapper/diskedt-sistema
                            48M
                                 16M 29M 35% /mnt/sistema
/dev/mapper/diskedt-dades
                           137M 16M 111M 12% /mnt/dades
afegim dades per veure el comportament
```

```
isx47320900@i12:/var/tmp/imatges$ sudo vgextend diskedt /dev/loop3
  Volume group "diskedt" successfully extended
isx47320900@i12:/var/tmp/imatges$ sudo vgdisplay diskedt
  --- Volume group ---
                            diskedt
  VG Name
  System ID
  Format
                            lvm2
  Metadata Areas
                            3
  Metadata Sequence No
                            4
  VG Access
                            read/write
                            resizable
  VG Status
  MAX LV
                            Θ
  Cur LV
                            2
                            2
  Open LV
  Max PV
                            0
                            3
  Cur PV
  Act PV
                            3
                            288.00 MiB
  VG Size
  PE Size
                            4.00 MiB
  Total PE
                            72
  Alloc PE / Size
                            48 / 192.00 MiB
  Free PE / Size
                            24 / 96.00 MiB
  VG UUID
                            VblPwF-dqQU-knX7-8uHN-0spg-cTaL-fkk1QL
ara afegirem un disc mes en calent
isx47320900@i12:/var/tmp/imatges$ sudo lvextend -L +30M /dev/diskedt/dades
 Rounding size to boundary between physical extents: 32.00 MiB.
 Size of logical volume diskedt/dades changed from 140.00 MiB (35 extents) to 172.00 MiB (43 extents).
 Logical volume diskedt/dades successfully resized.
ara fem mes gran un volum logic
isx47320900@i12:/var/tmp/imatges$ sudo lvdisplay /dev/diskedt/dades
   --- Logical volume ---
  LV Path
                             /dev/diskedt/dades
  LV Name
                             dades
```

```
VG Name
                        diskedt
LV UUID
                        P9rg1w-CojD-U2Hc-LCkB-GLHD-Deqy-IlSlsx
LV Write Access
                        read/write
LV Creation host, time i12, 2022-02-10 12:37:03 +0100
                        available
LV Status
# open
LV Size
                        172.00 MiB
Current LE
                        43
Segments
                        3
Allocation
                        inherit
Read ahead sectors
                        auto
- currently set to
                        256
Block device
                        254:1
```

```
isx47320900@i12:/var/tmp/imatges$ df -h
Filesystem
                             Size Used Avail Use% Mounted on
udev
                             7.8G
                                      0 7.8G
                                                0% /dev
tmpfs
                             1.6G
                                   1.8M 1.6G
                                                1% /run
/dev/nvme0n1p5
                                    26G 148G 15% /
                             183G
                                    78M 7.7G
                                                1% /dev/shm
tmpfs
                             7.8G
                             5.0M
                                         5.0M
tmpfs
                                   4.0K
                                                1% /run/lock
tmpfs
                             1.6G
                                   892K 1.6G
                                                1% /run/user/103054
gandhi:/groups
                             931G
                                   319G
                                         612G 35% /home/groups
/dev/mapper/diskedt-sistema
                              46M
                                    15M
                                          28M
                                               35% /mnt/sistema
/dev/mapper/diskedt-dades
                                    15M 106M 12% /mnt/dades
                             131M
Com veiem no ha cambiat el volum en el sistema de fichers
isx47320900@il2:/var/tmp/imatges$ sudo resize2fs /dev/diskedt/dades
resize2fs 1.46.2 (28-Feb-2021)
Filesystem at /dev/diskedt/dades is mounted on /mnt/dades; on-line resizing required
old desc blocks = 2, new desc blocks = 2
The filesystem on /dev/diskedt/dades is now 176128 (1k) blocks long.
aixi el resize
isx47320900@i12:/var/tmp/imatges$ df -h
Filesystem
                                Size
                                       Used Avail Use% Mounted on
                                7.8G
udev
                                                     0% /dev
                                          0
                                              7.8G
tmpfs
                                1.6G
                                       1.8M
                                              1.6G
                                                     1% /run
/dev/nvme0n1p5
                                183G
                                        26G
                                              148G
                                                   15% /
                                        77M
                                              7.7G
                                                     1% /dev/shm
tmpfs
                                7.8G
                                       4.0K
tmpfs
                                5.0M
                                              5.0M
                                                     1% /run/lock
tmpfs
                                       892K
                                              1.6G
                                                    1% /run/user/103054
                                1.6G
                                              612G 35% /home/groups
gandhi:/groups
                                       319G
                                931G
/dev/mapper/diskedt-sistema
                                 46M
                                        15M
                                               28M 35% /mnt/sistema
/dev/mapper/diskedt-dades
                                163M
                                        16M
                                              136M
                                                   11% /mnt/dades
  --- Logical volume ---
                           /dev/diskedt/dades
 LV Path
 LV Name
                           dades
 VG Name
                           diskedt
 LV UUID
                           P9rg1w-CojD-U2Hc-LCkB-GLHD-Deqy-IlSlsx
                           read/write
 LV Write Access
 LV Creation host, time i12, 2022-02-10 12:37:03 +0100
 LV Status
                           available
 # open
                           172.00 MiB
 LV Size
 Current LE
                           43
 Segments
                           3
 Allocation
                           inherit
 Read ahead sectors
                           auto
  - currently set to
                           256
```

254:1

ja ha cambiat!!

Block device

```
isx47320900@i12:/var/tmp/imatges$ sudo lvcreate -L 60M -n services /dev/diskedt
  Logical volume "services" created.
creem un nou volum
 --- Logical volume ---
                               /dev/diskedt/services
 LV Path
 LV Name
                               services
 VG Name
                               diskedt
                               CVINgI-d55v-0EMQ-J5Q3-2tlb-yZHK-PkgLhA
 LV UUID
 LV Write Access
                               read/write
 LV Creation host, time i12, 2022-02-10 12:53:03 +0100
                               available
 LV Status
 # open
 LV Size
                               60.00 MiB
 Current LE
                               15
 Segments
                               1
                               inherit
 Allocation
 Read ahead sectors
                               auto

    currently set to

                               256
 Block device
                               254:2
veiem que solament ocupa 1 com el primer
isx47320900@i12:/var/tmp/imatges$ sudo resize2fs /dev/diskedt/sistema 30M
resize2fs 1.46.2 (28-Feb-2021)
Filesystem at /dev/diskedt/sistema is mounted on /mnt/sistema; on-line resizing required
resize2fs: On-line shrinking not supported
no es pot fer petit en calent!!!!!!
isx47320900@il2:/var/tmp/imatges$ sudo e2fsck -f /dev/diskedt/sistema
e2fsck 1.46.2 (28-Feb-2021)
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/diskedt/sistema: 52/13328 files (3.8% non-contiquous), 21573/53248 blocks
isx47320900@i12:/var/tmp/imatges$ sudo resize2fs /dev/diskedt/sistema 30M
resize2fs 1.46.2 (28-Feb-2021)
Resizing the filesystem on /dev/diskedt/sistema to 30720 (1k) blocks.
The filesystem on /dev/diskedt/sistema is now 30720 (1k) blocks long.
el resize del filesistem
isx47320900@il2:/var/tmp/imatges$ sudo lvreduce -L 30M /dev/diskedt/sistema
  Rounding size to boundary between physical extents: 32.00 MiB.
  WARNING: Reducing active logical volume to 32.00 MiB.
  THIS MAY DESTROY YOUR DATA (filesystem etc.)
Do you really want to reduce diskedt/sistema? [y/n]: n
  Logical volume diskedt/sistema NOT reduced.
isx4-7320900@i12:/var/tmp/imatges$ sudo lvreduce -L 32M /dev/diskedt/sistema
 WARNING: Reducing active logical volume to 32.00 MiB. THIS MAY DESTROY YOUR DATA (filesystem etc.)
Do you really want to reduce diskedt/sistema? [y/n]: y
  Size of logical volume diskedt/sistema changed from 52.00 MiB (13 extents) to 32.00 MiB (8 extents).
```

resize de la particio

Logical volume diskedt/sistema successfully resized.

```
isx47320900@il2:/var/tmp/imatges$ sudo mount /dev/diskedt/sistema /mnt/sistema/
isx47320900@i12:/var/tmp/imatges$ df -h
Filesystem
                            Size Used Avail Use% Mounted on
                                   0 7.8G 0%/dev
udev
                            7.8G
                                             1% /run
                            1.6G 1.8M 1.6G 1% /
183G 26G 148G 15% /
7.8G 85M 7.7G 2% /
tmpfs
/dev/nvme0n1p5
tmpfs
                                             2% /dev/shm
                            5.0M 4.0K 5.0M 1% /run/lock
1.6G 892K 1.6G 1% /run/user/103054
tmpfs
tmpfs
                            931G 319G 612G 35% /home/groups
gandhi:/groups
                            163M 16M 136M 11% /mnt/dades
/dev/mapper/diskedt-dades
/dev/mapper/diskedt-sistema 26M 16M 7.8M 67% /mnt/sistema
el montem i ho veiem que s'ha reduit
isx47320900@il2:/var/tmp/imatges$ sudo umount /mnt/sistema
desmontem
isx47320900@il2:/var/tmp/imatges$ sudo lvreduce -L 25M -r /dev/diskedt/sistema
 Rounding size to boundary between physical extents: 28.00 MiB.
fsck from util-linux 2.36.1
/dev/mapper/diskedt-sistema: 52/7616 files (3.8% non-contiguous), 20595/30720 blocks
resize2fs 1.46.2 (28-Feb-2021)
resize2fs: New size smaller than minimum (29288)
fsadm: ext4 resize failed.
 /sbin/fsadm failed: 1
Filesystem resize failed.
fem mes petit d'1
isx47320900@il2:/var/tmp/imatges$ dd if=/dev/zero of=disk04.img bs=1k count=500k
512000+0 records in
512000+0 records out
524288000 bytes (524 MB, 500 MiB) copied, 0.717785 s, 730 MB/s
isx47320900@i12:/var/tmp/imatges$ sudo losetup /dev/loop5 disk04.img
isx47320900@il2:/var/tmp/imatges$ sudo pvcreate /dev/loop5
  Physical volume "/dev/loop5" successfully created.
isx47320900@il2:/var/tmp/imatges$ sudo vgextend diskedt /dev/loop5
  Volume group "diskedt" successfully extended
creem el volum i l'afegim a edt
isx47320900@i12:/var/tmp/imatges$ sudo pvmove /dev/loop1
  /dev/loop1: Moved: 26.32%
  /dev/loop1: Moved: 100.00%
ho mou a on trova espai ara hem de treure de el volum group
isx47320900@i12:/var/tmp/imatges$ sudo vgreduce diskedt /dev/loop1
   Removed "/dev/loop1" from volume group "diskedt"
isx47320900@i12:/var/tmp/imatges$ sudo pvremove /dev/loop1
  Labels on physical volume "/dev/loop1" successfully wiped.
```

```
isx47320900@i12:/var/tmp/imatges$ sudo pvmove /dev/loop2
  /dev/loop2: Moved: 75.00%
isx47320900@i12:/var/tmp/imatges$ sudo vgreduce diskedt /dev/loop2
  Removed "/dev/loop2" from volume group "diskedt"
isx47320900@i12:/var/tmp/imatges$ sudo pvremove /dev/loop2
  Labels on physical volume "/dev/loop2" successfully wiped.
isx47320900@i12:/var/tmp/imatges$ sudo pvmove /dev/loop3
  /dev/loop3: Moved: 17.39%
  /dev/loop3: Moved: 100.00%
isx47320900@il2:/var/tmp/imatges$ sudo vgreduce diskedt /dev/loop3
  Removed "/dev/loop3" from volume group "diskedt"
isx47320900@il2:/var/tmp/imatges$ sudo pvremove /dev/loop3
  Labels on physical volume "/dev/loop3" successfully wiped.
isx47320900@il2:/var/tmp/imatges$ sudo lvextend -L +200M -r /dev/diskedt/dades
 Size of logical volume diskedt/dades changed from 172.00 MiB (43 extents) to 372.00 MiB (93 extents).
 Logical volume diskedt/dades successfully resized.
resize2fs 1.46.2 (28-Feb-2021)
Filesystem at /dev/mapper/diskedt-dades is mounted on /mnt/dades; on-line resizing required
old_desc_blocks = 2, new_desc_blocks = 3
The filesystem on /dev/mapper/diskedt-dades is now 380928 (1k) blocks long.
```

fa un resize and update del fs

raid 0 escriu molt rapid y al llegir tarda mes no te seguretat ja que ens quedem penjats raid 1 crea un mirall del altre exactament igual si peta un tenim l'altre llegeix mes rapid pero escriu igual de rapid que a 1