Compte rendu TP2

Administration système

```
meryem@antix1:~
$ lsblk
NAME      MAJ:MIN RM   SIZE RO TYPE MOUNTPOINT
sda         8:0    0   5.1G  0 disk
└─sda1      8:1    0     5G  0 part /
sdb         8:16   0     8G  0 disk
└─sdb1      8:17   0     8G  0 part
sdc         8:32   0     8G  0 disk
└─sdc1      8:33   0     8G  0 part
sdd         8:48   0     8G  0 disk
└─sdd1      8:49   0     8G  0 part
sr0        11:0    1 1024M  0 rom
```

```
meryem@antix1:~
$ sudo apt install lvm2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  dmeventd libaio1 libdevmapper-event1.02.1 liblvm2cmd2.03
Recommended packages:
  thin-provisioning-tools
The following NEW packages will be installed:
  dmeventd libaio1 libdevmapper-event1.02.1 liblvm2cmd2.03 lvm2
0 upgraded, 5 newly installed, 0 to remove and 74 not upgraded.
Need to get 1,845 kB of archives.
After this operation, 6,679 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ftp.it.debian.org/debian buster/main amd64 libdevmapper-event1.02.1
 amd64 2:1.02.155-3 [22.6 kB]
Get:2 http://ftp.it.debian.org/debian buster/main amd64 libaio1 amd64 0.3.112-3
```

```
meryem@antix1:~
$ sudo lvcreate -n Vol3 -L 400M mvge
  Logical volume "Vol3" created.
meryem@antix1:~
$ sudo lvrename mvge Vol3 media
  Renamed "Vol3" to "media" in volume group "mvge"
meryem@antix1:~
$ sudo lvdisplay /dev/mvge/media
  --- Logical volume ---
  LV Path                /dev/mvge/media
  LV Name                media
  VG Name                mvge
  LV UUID                1txcei-f4l5-eVuH-mRHu-EiOa-YVhf-rahbTi
  LV Write Access        read/write
  LV Creation host, time antix1, 2021-12-09 01:17:48 +0100
  LV Status              available
  # open                 0
  LV Size                400.00 MiB
  Current LE             100
  Segments               1
  Allocation             inherit
  Read ahead sectors     auto
  - currently set to     256
  Block device           254:2
```

```
meryem@antix1:~
$ sudo lvremove /dev/mvge/media
Do you really want to remove active logical volume mvge/media? [y/n]: y
  Logical volume "media" successfully removed
```

```
meryem@antix1:~
$ sudo lvextend -L +100M /dev/mvge/media
  Size of logical volume mvge/media changed from 400.00 MiB (100 extents) to 500
.00 MiB (125 extents).
  Logical volume mvge/media successfully resized.
meryem@antix1:~
$ sudo lvreduce -L 300M /dev/mvge/media
  WARNING: Reducing active logical volume to 300.00 MiB.
  THIS MAY DESTROY YOUR DATA (filesystem etc.)
Do you really want to reduce mvge/media? [y/n]: y
  Size of logical volume mvge/media changed from 500.00 MiB (125 extents) to 300
.00 MiB (75 extents).
  Logical volume mvge/media successfully resized.
meryem@antix1:~
$ sudo mkfs -t ext4 /dev/mapper/mvge-Vol1
mke2fs 1.44.5 (15-Dec-2018)
Creating filesystem with 204800 1k blocks and 51200 inodes
Filesystem UUID: 854eb2e1-f637-4009-9258-ce32e7bcb770
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
```

```
meryem@antix1:~
$ sudo mkfs -t ext4 /dev/mapper/mvge-Vol2
mke2fs 1.44.5 (15-Dec-2018)
Creating filesystem with 307200 1k blocks and 76912 inodes
Filesystem UUID: 9d1be784-73d4-4554-b092-afcd49de5da2
Superblock backups stored on blocks:
        8193, 24577, 40961, 57345, 73729, 204801, 221185

Allocating group tables: done
Writing inode tables: done
Creating journal (8192 blocks): done
Writing superblocks and filesystem accounting information: done

meryem@antix1:~
$ sudo mkfs -t ext4 /dev/mapper/mvge-media
mke2fs 1.44.5 (15-Dec-2018)
Creating filesystem with 307200 1k blocks and 76912 inodes
Filesystem UUID: 64b0ed09-8c8f-44b8-a01e-1f97009ee546
Superblock backups stored on blocks:
        8193, 24577, 40961, 57345, 73729, 204801, 221185

Allocating group tables: done
Writing inode tables: done
Creating journal (8192 blocks): done
Writing superblocks and filesystem accounting information: done
```

```
meryem@antix1:~
$ sudo mkdir /mnt/share
meryem@antix1:~
$ sudo mkdir /mnt/backup
meryem@antix1:~
$ sudo mkdir /mnt/media
```

```
meryem@antix1:~
$ sudo lvscan
  ACTIVE            '/dev/mvge/Vol1' [200.00 MiB] inherit
  ACTIVE            '/dev/mvge/Vol2' [300.00 MiB] inherit
  ACTIVE            '/dev/mvge/media' [300.00 MiB] inherit
meryem@antix1:~
$ sudo mount /dev/mapper/mvge-Vol1 /mnt/share
meryem@antix1:~
$ sudo mount /dev/mapper/mvge-Vol2 /mnt/backup
meryem@antix1:~
$ sudo mount /dev/mapper/mvge-media /mnt/media
meryem@antix1:~
$ df -h
Filesystem              Size  Used Avail Use% Mounted on
udev                    3.5G     0  3.5G   0% /dev
tmpfs                   706M  808K  705M   1% /run
/dev/sda1               4.9G  3.8G  916M  81% /
tmpfs                   5.0M  4.0K  5.0M   1% /run/lock
tmpfs                   1.4G     0  1.4G   0% /dev/shm
tmpfs                   706M     0  706M   0% /run/user/1000
/dev/mapper/mvge-Vol1   190M  1.6M  175M   1% /mnt/share
/dev/mapper/mvge-Vol2   283M  2.1M  262M   1% /mnt/backup
/dev/mapper/mvge-media  283M  2.1M  262M   1% /mnt/media
```