

# TP1 LINUX

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I)

## 1. sudo fdisk -l

```
vm@fedora:~$ sudo fdisk -l
[sudo] password for vm:
Disk /dev/sda: 32 GiB, 34359738368 bytes, 67108864 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: gpt
Disk identifier: FC235DF3-063A-4C10-89D1-39F3C1C5BB5D

Device            Start      End  Sectors  Size Type
/dev/sda1          2048    1230847  1228800  600M EFI System
/dev/sda2    1230848    3327999  2097152    1G Linux filesystem
/dev/sda3    3328000    67106815 63778816 30.4G Linux filesystem

Disk /dev/zram0: 3.81 GiB, 4090494976 bytes, 998656 sectors
Units: sectors of 1 * 4096 = 4096 bytes
Sector size (logical/physical): 4096 bytes / 4096 bytes
I/O size (minimum/optimal): 4096 bytes / 4096 bytes
vm@fedora ~]$
```

## 2. 63.5G

## 3. Linux filesystem

Autres systèmes sont : FAT, NTFS, etc.

## 4. Ils représentent les partitions des disques durs que le système exploite.

## 5. Il n'y a pas d'équivalent directe, mais la racine est « / ».

## 6. /boot/grub2/grub.cfg

```
vm@fedora:/]$ sudo ls boot/grub2/
fonts  grub.cfg  grubenv
vm@fedora /]$
```

## 7. [vm@fedora /]\$ ls

afs	boot	etc	lib	lost+found	mnt	proc	run	srv	tmp	var
bin	dev	home	lib64	media	opt	root	sbin	sys	usr	

```

vm@fedora:/
[vm@fedora /]$ ls
afs boot etc lib lost+found mnt proc run srv tmp var
bin dev home lib64 media opt root sbin sys usr
[vm@fedora /]$

```

home : environnement des utilisateurs

dev : liste des machines physiques et virtuels

boot : dossier contenant les fichiers nécessaires pour démarrer un ordinateur

etc : dossier contenant des fichiers divers

lib : dossier des librairies

mnt : dossier pour les supports de stockages temporaires (CD, DVD...)

proc : dossier contenant des processus

II)

8. [vm@fedora ~]\$ \$PATH

bash:

/home/vm/.local/bin:/home/vm/bin:/usr/local/bin:/usr/local/sbin:/usr/bin:/usr/sbin: No such file or directory

```

vm@fedora:/
[vm@fedora /]$ $PATH
bash: /home/vm/.local/bin:/home/vm/bin:/usr/local/bin:/usr/local/sbin:/usr/bin:/usr/sbin: No such file or directory
[vm@fedora /]$

```

On dispose de six environnements

9. \$SHELL

10. ls : liste des fichiers et dossiers dans un chemin courant

useradd : ajout d'un utilisateur

chsh : configuration d'un « shell »

11. sudo groupadd gr1

sudo groupadd gr2

```

[vm@fedora ~]$ sudo groupadd gr1
[sudo] password for vm:
[vm@fedora ~]$ sudo groupadd gr2
[vm@fedora ~]$ sudo cat etc/group
root:x:0:
bin:x:1:
daemon:x:2:
sys:x:3:
adm:x:4:
tty:x:5:
disk:x:6:
lp:x:7:
mem:x:8:
kmem:x:9:
wheel:x:10:vm
cdrom:x:11:
mail:x:12:
man:x:15:
dialout:x:18:
floppy:x:19:
games:x:20:
tape:x:33:
video:x:39:
ftp:x:50:
lock:x:54:
audio:x:63:
users:x:100:
nobody:x:65534:
dbus:x:81:
apache:x:48:
utmp:x:22:
utempter:x:35:
tcpdump:x:72:tcpdump
plocate:x:980:
gamemode:x:979:
systemd-coredump:x:978:
systemd-timesync:x:977:
vm:x:1000:
vboxdrmipc:x:976:
gr1:x:1001:
gr2:x:1002:
[vm@fedora ~]$ s

```

Pour éditer le fichier dans /etc/group :

```

[vm@fedora ~]$ sudo vigr
vigr: /etc/group is unchanged
[vm@fedora ~]$

```

12. 1001 et 1002, respectivement
13. `sudo useradd user1 -g gr1`  
`sudo useradd user2 -g gr2`

```
vm@fedora:/  
[vm@fedora /]$ sudo useradd user1 -g gr1  
[vm@fedora /]$ sudo useradd user2 -g gr2  
[vm@fedora /]$ ls /home/  
user1 user2 vm  
[vm@fedora /]$
```

```
vm@fedora:/  
[vm@fedora /]$ sudo passwd user1  
Changing password for user user1.  
New password:  
BAD PASSWORD: The password is shorter than 8 characters  
Retype new password:  
passwd: all authentication tokens updated successfully.  
[vm@fedora /]$ sudo chage --maxdays 5 user1  
[vm@fedora /]$ sudo passwd user2  
Changing password for user user2.  
New password:  
BAD PASSWORD: The password is shorter than 8 characters  
Retype new password:  
passwd: all authentication tokens updated successfully.  
[vm@fedora /]$ sudo chage --maxdays 5 user2  
[vm@fedora /]$
```

14. `systemd-timesync:x:977:977:systemd Time Synchroniz`  
`vm:x:1000:1000:vm:/home/vm:/bin/bash`  
`user1:x:1001:1001:./home/user1:/bin/bash`  
`user2:x:1002:1002:./home/user2:/bin/bash`
15. `[vm@fedora /]$`

```
vm@fedora:/  
[vm@fedora /]$ sudo vipw  
vipw: /etc/passwd is unchanged  
[vm@fedora /]$
```

user1 :  
UID : 1001  
GID : 1001  
Shell : /bin/bash

user 2 :  
UID : 1002  
GID : 1002  
Shell : /bin/bash  
x = exécuter

16. 

```
systemd-timesyncd.*:19301.....  
vm:$y$j9T$H0bQzt1NC3UB9FXjsj05q1$vgN0eJZtHQ5w2IuEkrsw1JCYUXB6weBYqN7EiP904G  
73:0:99999:7:::  
user1:$y$j9T$PrCbNjPE5AYCTfzAJ/sjY.$ubov1rPSK.OYMX0PDyFxf72aq4cuYfGjSB3z/8v  
19383:0:5:7:::  
user2:$y$j9T$BON8YUIobiqfb1RpAS6f41$AC/6Pe9ZPeEDTA9W0L6eVFbQAlltQSN3KBBX/R6  
19383:0:5:7:::  
[vm@fedora ~]$
```

Le deuxième champ indique le mot de passe crypté.

17. 

```
user1@fedora:~  
[vm@fedora ~]$ su - user1  
Password:  
Warning: your password will expire in 5 days.  
[user1@fedora ~]$ pwd  
/home/user1  
[user1@fedora ~]$
```

18. 

```
user1@fedora:~  
[user1@fedora ~]$ cd /  
[user1@fedora /]$ cd ~  
[user1@fedora ~]$
```

19. 

```
root@fedora:/  
[root@fedora /]# usermod -g gr2 user1
```

20. 

```
user1:x:1001:1002:~/home/user1:/bin/bash  
user2:x:1002:1002:~/home/user2:/bin/bash  
[root@fedora /]#
```