

## UNIT 10.LINUX

### Activities V Solutions

Computer Systems  
CFGs DAW

Autor: Vicent Bosch  
vicent.bosch@ceedcv.es

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## Nomenclatura

A lo largo de este tema se utilizarán distintos símbolos para distinguir elementos importantes dentro del contenido. Estos símbolos son:

🔗 Actividad opcional. Normalmente hace referencia a un contenido que se ha comentado en la documentación por encima o que no se ha hecho, pero es interesante que le alumno investigue y practique. Son tipos de actividades que no entran para examen

👁️ Atención. Hace referencia a un tipo de actividad donde los alumnos suelen cometer equivocaciones.

## UD10. LINUX Activities V

### 1.1 Before doing these activities

You should have read the class notes.

### 1.2 Commands: grep

Since **de delimiter is ; and can be confused by grep with an special character, you must type \ before.**

- 1) Create a text file (students\_log) with this format:

*name;course\_year;subject;final\_mark*

Laura;2019;BD;9

Laura;2020;LM;7

- 2) Search for the 2019 students.

```
grep 2019 students_log
```

- 3) Search for students with marks in PRO.

```
grep PRO students_log
```

- 4) Search for students who have passed LM.

```
grep LM\; [^0-4] students_log
```

- 5) Search for students who have not passed ED.

```
grep ED\; [0-4] students_log
```

- 6) How many students have marks in the year 2020? (use **man grep** to locate the argument that shown the number of matching occurrences).

```
grep -c 2020 students_log
```

### 1.3 Commands: redirections

- 1) Search for students who have passed LM and store the results in a new file.

```
grep LM\;[^0-4] students_log > file.txt
```

- 2) Append to an existing file the number of students with marks from 7 to 9.

```
grep [7-9]$ students_log >> file.txt
```

- 3) Show the content of the file in the previous task. If the file does not exist, the error message must be stored in an error log.

```
grep file.txt 2> error.log
```


- 4) Show the information about the disk sda and its partitions. Use the command **lsblk**.

```
lsblk | grep sda
```

### 1.4 Commands: links

- 1) Create a soft link in the user's directory for the directory Desktop.

```
ln -s /home/user/Desktop soft_link
```

- 2)  Create a copy of the file /etc/passwd in the Documents directory and named it "users". Create a hard link in a different user's directory to the *users* file just created.

```
profesor@profesor-virtualbox:~/Documents$ cp /etc/passwd users
profesor@profesor-virtualbox:~/Documents$ ls -l
total 8
-rwxrwxrwx 1 profesor profesor  5 feb  9 18:39 cosas.txt
-rw-rw-r-- 1 student  dawuser    0 feb  7 11:07 myfile.txt
-rwxrwxr-x 1 profesor profesor  0 feb 11 20:26 sin.txt
-rw-r--r-- 1 profesor profesor 2747 abr 22 11:27 users
```

```
~/Documents$ ln users /home/profesor/Desktop
~/Documents$ cd ..
```

```
profesor@profesor-virtualbox:~/Desktop$ ls -l users
-rw-r--r-- 2 profesor profesor 2747 abr 22 11:27 users
```