

UNIT 10.LINUX

Activities 2. 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.

UD010. LINUX

Activities 2. Solutions

1.1 Activity 1

Investigate and post/discuss in the forum some of these topics (remember, there is an extra point for the participation in the forum):

- What is `/dev` directory and explain how to mount a unit.
- What is file `"/etc/fstab"`.
- Differences between hard links and symbolic links.
- Examples of files with SetUID activated and why they need it.
- Security problems with bit SetUID
- Any other Linux topic that you consider interesting or difficult.

1.2 Activity 2

Do the suggested actions on Linux console and write the command used to perform each one.

1. Go to your home directory.

```
user@hostname:/etc$ cd
```

2. Create directory PRACTICA on your home directory.

```
user@hostname:~$ mkdir PRACTICA
```

3. Change current directory to PRACTICA.

```
user@hostname:~$ cd PRACTICA
```

```
user@hostname:~/PRACTICA$
```

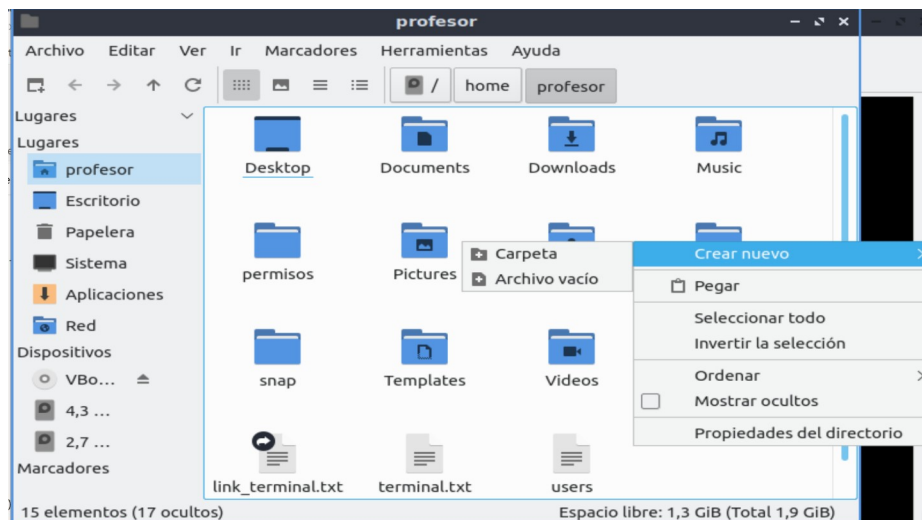
4. Create sub-directory DATOS in PRACTICA.

```
user@hostname:~/PRACTICA$ mkdir DATOS
```

5. Change current directory to DATOS

```
user@hostname:~/PRACTICA$ cd DATOS
```

```
user@hostname:~/PRACTICA/DATOS$
```

6. (Outside of Linux console) Create a file texto.txt with your name and surname inside**7. Copy file texto.txt to texto.bak**

```
user@hostname:~/PRACTICA/DATOS$ cp texto.txt texto.bak
```

8. Copy file texto.txt to texto.bas

```
user@hostname:~/PRACTICA/DATOS$ cp texto.txt texto.bas
```

9. Execute command LS using **wildcards to show only files that start with TEX and their two first extension characters would be BA.**

```
user@hostname:~/PRACTICA/DATOS$ ls text*.ba*
```

10. Create the file salida.txt using a redirected output using the command of the last exercise.

```
user@hostname:~/PRACTICA/DATOS$ ls text*.ba* > salida.txt
```

11. Check the content of salida.txt using command CAT.

```
user@hostname:~/PRACTICA/DATOS$ cat salida.txt
```

12. Rename file salida.txt to salida.dat

```
user@hostname:~/PRACTICA/DATOS$ mv salida.txt salida.dat
```

13. (Outside of Linux console) Create file clasi.dat with:

- 1 Valencia CF
- 2 At. Madrid
- 3 Villarreal CF
- 4 FC Barcelona
- 5 Real Madrid

14. Being DATOS your current directory, copy all content of directory PRACTICA and its sub-directories to a new directory DOCS in the path (/home/yourhome/DOCS)

```
user@hostname:~/PRACTICA/DATOS$ mkdir /home/user/DOCS
user@hostname:~/PRACTICA/DATOS$ cp -r ../ * /home/user/DOCS
```

15. Change to directory home/yourhome/DOCS/DATOS using a relative path

```
user@hostname:~/PRACTICA/DATOS$ cd ../../user/DOCS
```

16. Create file clasi.org as a result of sorting clasi.dat for second column.

```
user@hostname:~/PRACTICA/DATOS$ sort -k 2 clasi.dat > clasi.dat
```

17. Delete created directories.

```
user@hostname:~$ rm -r -v PRACTICA
```