

UNIT 10.LINUX

Activities IV: permissions

Computer Systems
CFGS DAW

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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 IV: permissions

1.1 Before doing these activities

Read all the class notes, yes, all, all the pages please, yes yes.

Please also read this article: <http://www.perfect.com/articles/chmod.shtml>

1.2 Activity 1. Set octal permissions with chmod.

For this activity you will need at least two users: the main user which is the one you created in the Ubuntu installation, and another one.

1) With the main user:

- Go to the main user's directory and create a new directory named **permissions**. (*command mkdir*).
- In the **permissions** directory create 3 empty files: file01.txt, file10.txt, file11.txt. (*command touch*).
- Check the default permissions of the directory and the files. Which are the permissions in octal notation?

2) With another user in a different terminal: tty2, tty3, etc:

- Access to **permissions** directory and delete **file01.txt**. Do you have permissions? Give permissions, in octal notation, to this user so that the delete operation is allowed **only for this file, and test it.**
- In this user's directory create:
 - a new directory named **permissions2**
 - 2 empty files: file2_01.txt, file2_10.txt
- Check the default permissions of the directory and the files just created. Which are the permissions in octal notation?

3) With the main user in terminal tty1.

- Access to the other user's directory and move all the **txt** files to permissions2 directory. Do you have permissions? Give permissions, in octal notation, to this user so that the move operation is allowed **for all the txt.files in permissions2 directory, and test it.**

1.3 Activity 3.

1) Convert the following octal permissions to alpha/symbolic notation:

- 664
- 700
- 771
- 502
- 000
- 640

2) Convert the following alpha/symbolic permissions to octal notation:

- u=rwx,g=w,o=r
- u=rw,g=rw,o=-
- u=r,go=-
- a=rw
- ug=rw,o=r
- uo=rw,g=r

1.4 Activity 4. Groups.

- 1) Create a new group: **linuxusers**
- 2) Add to this group the two users of the previous activities.
- 3) With main user in the user's directory,
 - create a new directory: dir_group
 - create two files in the directory dir_group
 - verify permissions with the other user of the group.