

UD 05. INTRODUCTION TO LINUX Activities

Computer Systems
CFGS DAW

Álvaro Maceda
a.macedaarranz@edu.gva.es

2022/2023

Version:221031.0849

License



Attribution - NonCommercial - ShareAlike (by-nc-sa): No commercial use of the original work or any derivative works is permitted, distribution of which must be under a license equal to that governing the original work.

Nomenclature

Throughout this unit different symbols will be used to distinguish important elements within the content. These symbols are:



Important



Attention



Interesting

UT 05. INTRODUCTION TO LINUX

ACTIVITIES

In this exercises we will be working with an Ubuntu Mate 22.04 machine. It's recommended that you use VirtualBox and work with a virtual machine. Remember that you can make clones of an already working machine.

It can be useful to make a snapshot of the virtual machine before attempting the exercises: if something goes wrong, you can restore the snapshot and you won't need to install or clone a new machine.

1. EXERCISE 1

1. Open a console and show a list of all the files in `/etc`, ordered by file size, with the bigger files on the bottom. Use `man` to gather information about how the listing command works.
2. Create the file `/tmp/list.txt` with the contents of that list. Show the contents of that list using a Linux command.

2. EXERCISE 2

1. Display the kernel messages of your system. Plug in a USB device. Display the kernel messages again. You should see the messages related to the new device. If not, test that the device works in the virtual machine and check VirtualBox USB configuration.
2. Launch a command to search in the logs when the user `<user>` has opened a session. Search the corresponding log, and change `<user>` by your user name. Use pipes to display information related only to that user

3. EXERCISE 3

1. Install Ubuntu server edition. Print a listing of the root directory (`ls -l /`) and compare it with the Ubuntu Mate distribution.
2. Install Fedora LXDE edition (<https://spins.fedoraproject.org/lxde/>) Print a listing of the root directory (`ls -l /`) and compare with the Ubuntu Mate distribution.

4. EXERCISE 4

- Install SSDM display manager in a Ubuntu Mate Machine and select it as the default display manager (see <https://techpiezo.com/linux/switch-display-manager-in-ubuntu-22-04/>). Reboot the computer and log in again with the new display manager.
- Install KDE Plasma desktop on a Ubuntu Mate machine (see <https://itsfoss.com/install-kde-on-ubuntu/>) Log out and log in again using the new desktop (you can select it in the login screen provided by the display manager)