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Ubuntu Multi disco

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# Objetivo de la práctica

1. It is about installing an operating system that contains its different file systems on partitions of different disks.
2. We will use Ubuntu 18.04 or higher
3. We will install the system
4. We will make a map of the discs
5. We will prepare an explanatory document on the possibilities of growth
6. We will study the advantages of separating /home

# Inventario de material necesario

A system of three disks and creates the following partitions on them:

– HD1 (4 Gbytes)

It will contain GRUB, /boot (200 MB), a partition to be used later as a data repository (/var, 2GB) and 256 Mbytes swapping

(about a logical unit)

– HD2 (15 Gbytes)

It will contain the rest of the system (/) except /boot, /var and /home

– HD3 (3 Gbytes)

It will contain /home on a 1 GByte partition

# Ejecución, investigación y desarrollo

## Instalación

Once we create the virtual machine we will have to install the Ubuntu LiveCD, once we start it we will go to "try ubuntu" and once there we will go to Gparted and make the partitions.

Texto

Descripción generada automáticamente

Once the partitions are done, we will install Ubuntu. In the installation menu we must format the partitions and indicate the directories. We give it as ext4 format. And we will create a 500MB partition for the GRUB.

Interfaz de usuario gráfica

Descripción generada automáticamente con confianza media

Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

Descripción generada automáticamente

We don't see it starting.

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente

I check the partitions and see that they are fine.Interfaz de usuario gráfica, Tabla

Descripción generada automáticamente

We see that the installation was done correctly but the bootloader did not so we indicate that it deletes the installed Ubuntu and reinstalls it. Before I give it I want to check the partitions again so I go to the last option and see the followingTabla

Descripción generada automáticamente con confianza media

Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

Descripción generada automáticamente

I remember that I had forgotten to add the swapping partition so maybe that was the problem. This time it does not give us the previous error. We see that it gives us an error but we restart.

Captura de pantalla de un celular

Descripción generada automáticamente

I see that it still does not start.

I think about what I may have done wrong.

1. The partition table chosen was msdos
2. The machine is BIOS
3. Do not install the bootloader in /boot

I don't think any of them are the problem. Perhaps it would have been better to perform the formatting when the installation is done.

At this point I decide to remake the entire machine again with this last change.

Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente

We see that it is already starting so it is most likely the last case.

Texto

Descripción generada automáticamente

## Reinstalling the system

Now go back to Gparted and modify the partitions

1. Change the place swap to reside in HD3. Remember to activate it.
2. Destroys the partition where /var resided so that from now on it resides in HD2 (along with /)
3. Keeps /home intact on your partition on HD3 disk

Reinstall the system with the new specifications.

With the system started we can do point 1.

For the others we must go to the live CD.

I have the doubt if we should make that in the same partition in which it resides / has to be also /var but I do not think it is so.

We perform the following installation:

Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente

# Conclusiones

It has helped me to better understand the partitioning system and the functions that some directories perform