

**COMPUTER SYSTEMS**  
**UD5: OS ADMINISTRATION**  
**A01: UBUNTU ADMINISTRATION**

**CFGS DAW**  
**DPT INF**

## User and group management

In a system we want to have a series of user and group accounts to serve different users of a company. In this company there are two departments to which the different employees belong. Some employees belong to more than one department. We have thought that the way to organize user accounts to manage access permissions to the different resources available in the system is by using groups that simulate the groups used in the real company.

Departments:

- Logistics: pedropm, cristinara, marisagh
- Advertising: victorbi, cristinara, albertorm, ainaravr

Using only commands you must:

1. Create the **logistics**, **advertising** and **infopacense** groups
2. Create the company user accounts
3. Add all the users created to the **infopacense** and the users to each of the groups of the departments
4. For each user it shows identification information that allows verifying that they have really been added to the groups
5. It shows the configuration line of each group created in the system group account configuration file
6. For each group , show only your group name and GID sorted alphabetically. This information is in the system group accounts file.
7. For each group, show only its group name and list of member users. Sort the information alphabetically. This information is in the group account file and you must filter it.
8. Show only the list of users who are members of the **logistics**. This information is in the group account file and you must filter it.
9. Show the password information of the user **cristinara**.
10. user account **albertorm**.

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## Home Directories

11. Displays the permissions of the home directories of system users.
12. Set the home directories of system users to be confidential. Only the user to whom the home directory belongs will be able to access your home directory.
13. Shows the permissions of the system users' home directories again and checks whether they are sensitive or not.

## Company directories

We are going to create and configure a series of directories that will be used to store work and share internal information with the rest of the company's members.

14. Create the **advertising**, **logistics**, **projects**, **employees** and **clients** directories within the **infopacense** that will be in the root directory.
15. Configure the **/infopacense** so that only members of the company, members of **the infopacense group**, can access said directory to perform read operations. Other users will not be able to perform any operations.
16. Configure the **/infopacense/publicidad** so that only members of the publicity group can access said directory, being able to perform read and write operations. Other users will not be able to perform any operations.
17. Configure the **/infopacense/logistica** so that only members of the logistics group can access said directory, being able to perform read and write operations. The rest of the users will not be able to carry out any operation.
18. Configure the **/infopacense/employees** so that only the members of the infopacense group can access said directory, being able to carry out only read operations. Other users will not be able to perform any operations.
19. Configure the **/infopacense/projects** so that only the heads of departments, which are **marisagh** and **ainaravr**, can access said directory, being able to perform read and write operations. The rest of the users will only be able to access to perform reading operations. You will have to do some extra operation.
20. Configure the **/infopacense/clientes** so that only the **pedropm** can access said directory, being able to perform read and write operations. Members of **the advertising group** will be able to access read-only operations. Other users will not be able to perform any operations.

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**Useful commands:**

addgroup	chmod
adduser	chgrp
grep	mkdir
mv	tree
ls	cut
id	passwd
cat	