

Scenario

In this scenario, a new employee with the username `researcher9` joins an organization. You have to add them to the system and continue to manage their access during their time with the organization.

Here's how you'll do this task: **First**, you'll add a new employee to the system and then to their primary group. **Second**, you'll make this employee the owner of a file related to a particular project. **Third**, you'll add the new employee to a supplementary group. **Finally**, you'll delete the employee from the system.

Task 1. Add a new user

A new employee has joined the Research department. In this task, you must add them to the system. The username assigned to them is `researcher9`.

1. Write a command to add a user called `researcher9` to the system.

Next, you need to add the new user to the `research_team` group.

2. Use the `usermod` command and `-g` option to add `researcher9` to the `research_team` group as their primary group.

Task 2. Assign file ownership

The new employee, `researcher9`, will take responsibility for `project_r`. In this task, you must make them the owner of the `project_r.txt` file.

The `project_r.txt` file is located in the `/home/researcher2/projects` directory, and owned by the `researcher2` user.

- Use the `chown` command to make `researcher9` the owner of `/home/researcher2/projects/project_r.txt`.

Task 3. Add the user to a secondary group

A couple of months later, this employee's role at the organization has changed, and they are working in both the Research and the Sales departments.

In this task, you must add researcher9 to a secondary group (sales_team). Their primary group is still research_team.

- Use the usermod command with the -a and -G options to add researcher9 to the sales_team group as a secondary group.

Task 4. Delete a user

A year later, researcher9, decided to leave the company. In this task, you must remove them from the system.

1. Run a command to delete researcher9 from the system:

```
sudo userdel researcher9
```

Copied!

content_copy

This command will output the following message:

```
Userdel: Group researcher9 not removed because it is not the primary group of user researcher9.
```

This is expected.

Note: When you create a new user in Linux, a group with the same name as the user is automatically created and the user is the only member of that group. After removing users, it is good practice to clean up any such empty groups that may remain behind.

2. Run the following command to delete the researcher9 group that is no longer required:

```
sudo groupdel researcher9
```