Manage Users in Linux

# Project description

In this scenario, a new employee (researcher9) just joined the organization. As a result, the research team tasked me to manage the user access within the organization. The operating system is Linux, indicating that the tasks require a command-line interface (Linux Bash shell) approach via Linux Terminal.

# Describe the commands

The following are the commands when managing the user access:

1. useradd allows us to add users to the system.

sudo useradd researcher9

1. usermod allows us to assign the users to a speci c group as well as a secondary group.

sudo usermod -g research\_team researcher9

1. userdel allows us to delete the users from the system.

sudo userdel researcher9

1. groupdel allows us to delete the user’s group.

sudo groupdel researcher9 (When a new user is created, a group with the same name as the user is also created and that user is the only member of that group. A er removing users, it is highly recommended to clean up any such empty groups that are le behind).

1. chown allows us to assign le ownership.

sudo chown researcher9 /home/researcher2/projects/project\_r.txt

Notice that all the commands require sudo. Sudo means “super user do!”. On the other hand, -g here adds users “to” a speci c group (primary).

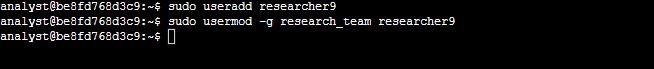
# Adding users and group

The organization would like to add researcher9 to the system and add him to the research\_team group as his primary group. Here’s the command:

1. Sudo useradd researcher9
2. Sudo usermod -g research\_team researcher9

Alternatively, we can perform both steps at once:

1. Sudo useradd researcher9 -g research\_team



# Assign le ownership

Researcher9 will take over project\_r and the owner has to be him (project\_r.txt). The project\_r.txt is located in the /home/researcher2/projects and is currently owned by researcher2. The command to make it happen is:

sudo chown researcher9 /home/researcher2/projects/project\_r.txt



# Add the user to a secondary group

A few months later, researcher9 is now working in both the research and sales departments. My task is to add resesarcher9 to the sales department as a secondary group without removing him from research department. Sales team is sales\_team.

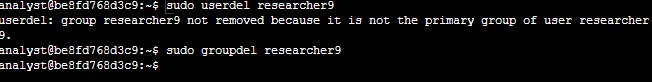
Sudo usermod -a -G sales\_team researcher9



# Delete a user

A year later, researcher9 decided to leave the company. In this task, I have to remove him from the system. The command to make it happen is:

1. sudo userdel researcher9 (Will not remove it. Please refer to “describe the command” section)
2. sudo groupdel researcher9



# Summary

In this project, I demonstrated how to add the users, assign the users to the speci c group and secondary group, assign the le ownership, and delete their account.