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
- 2. usermod allows us to assign the users to a speci c group as well as a secondary group. sudo usermod -g research team researcher9
- 3. userdel allows us to delete the users from the system. sudo userdel researcher9
- 4. 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).
- 5. 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

```
analyst@be8fd768d3c9:~$ sudo useradd researcher9
analyst@be8fd768d3c9:~$ sudo usermod -g research_team researcher9
analyst@be8fd768d3c9:~$ []
```

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

```
analyst@be8fd768d3c9:~$ sudo chown researcher9 /home/researcher2/projects/project_r.txt
analyst@be8fd768d3c9:~$ [
```

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 researcher9 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
analyst@be8fd768d3c9:~$ sudo usermod -a -G sales_team researcher9
analyst@be8fd768d3c9:~$
```

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

```
analyst@be8fd768d3c9:~$ sudo userdel researcher9
userdel: group researcher9 not removed because it is not the primary group of user researcher
9.
analyst@be8fd768d3c9:~$ sudo groupdel researcher9
analyst@be8fd768d3c9:~$
```

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.