# Manage and Add Users with Linux

### Project description

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. In this scenario, I will be using the useradd, usermod, userdel and chown command to manage user access in the Linux Bass shell.

This project summarize how I demonstrated to add users, assign file ownership, add users to their respective group and secondary group, and delete a user:

- Not all users get access to the system
- New users are added to the system
- Current users who change groups or leave the organization are deleted from the system.

#### Add a new user

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

```
analyst@4ca9afdd9ff7:~$ sudo useradd researcher9
analyst@4ca9afdd9ff7:~$ sudo usermod -g research_team researcher9
analyst@4ca9afdd9ff7:~$
```

- I used the sudo useradd command to add a user called researcher9 to the system.
- The command usermod and -g option to add researcher9 to the research\_team group as their primary group.

## Assign file ownership

The new employee, researcher9, will take responsibility for project\_r. In this process, I 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.

```
analyst@4ca9afdd9ff7:~$ sudo chown researcher9 /home/researcher2/projects/project_r.txt
analyst@4ca9afdd9ff7:~$
```

• I used the chown command to make researcher9 the owner of /home/researcher2/projects/project r.txt.

### 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 scenario, I must add researcher9 to a secondary group (sales\_team). Their primary group is still research team.

```
analyst@4ca9afdd9ff7:~$ sudo usermod -a -G sales_team researcher9
analyst@4ca9afdd9ff7:~$
```

• I used the usermod command with the -a and -G options to add researcher9 to the sales team group as a secondary group.

#### Delete a user

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

```
analyst@4ca9afdd9ff7:-$ sudo userdel researcher9
userdel: group researcher9 not removed because it is not the primary group of
user researcher9.
analyst@4ca9afdd9ff7:-$ sudo groupdel researcher9
analyst@4ca9afdd9ff7:-$
```

- I used the userdel command to delete researcher9 from the system. The output will be a message Userdel: Group researcher9 not removed because it is not the primary group of user researcher9.
- The groupdel command let me delete the researcher9 group that is no longer required.