

# Add and manage users with Linux commands

## Project description

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.

Add new user, add user to `researcher_team` group

```
analyst@dcf3eef0fd3d:~$ pwd
/home/analyst
analyst@dcf3eef0fd3d:~$ sudo useradd researcher9
analyst@dcf3eef0fd3d:~$ sudo usermod -g researcher_team researcher9
```

I used the `useradd` command with `sudo` to create a new user called `researcher9`. Since I didn't specify additional options, this command only creates the user without setting a password or home directory.

## Assign file ownership

```
analyst@dcf3eef0fd3d:~$ sudo chown researcher9 /home/researcher2/projects/project_r.txt
analyst@dcf3eef0fd3d:~$ sudo usermod -a -G sales_team researcher9
```

I used the `chown` (change ownership) command to give `researcher9` ownership of the file `project_r.txt`. Add the user to a secondary group  
[Add content here.]

## Add user to a secondary group

```
analyst@dcf3eef0fd3d:~$ sudo usermod -a -G sales_team researcher9
analyst@dcf3eef0fd3d:~$ sudo userdel researcher9
```

I used the `usermod` command to **append** (`-a`) `researcher9` to the `sales_team` group (`-G`). This ensures the user keeps their existing groups while being added to the new one.

## Delete a user

```
analyst@dcf3eef0fd3d:~$ sudo userdel researcher9
userdel: group researcher9 not removed because it is not the primary group of user researcher9.
analyst@dcf3eef0fd3d:~$ sudo groupdel researcher9
analyst@dcf3eef0fd3d:~$
```

I used `userdel` to delete `researcher9` from the system. However, this command does not remove the user's home directory or the groups they belonged to.

Since `userdel` does not automatically delete the user's group, I ran `groupdel` to remove the `researcher9` group manually.

## Summary

To add and modify user accounts with Linux commands, I used `sudo`, which granted me secure elevated permissions to alter and update user accounts based on the current security measures.