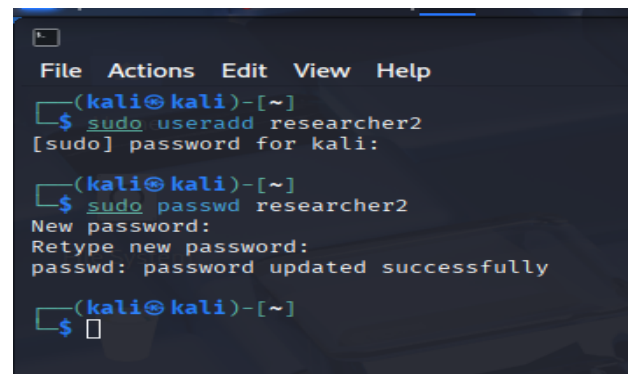


# Managing Users, Groups, and File Permissions in Linux – Cybersecurity Portfolio Project

## 1- Use this command to create new user

```
$ sudo useradd researcher2
/*useradd a command using to create a new
users*/

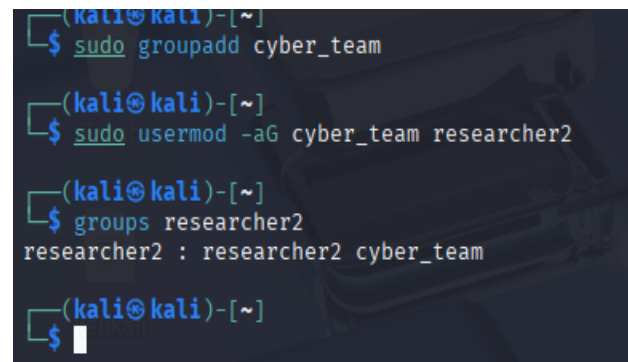
$ sudo passwd researcher2
/*passwd a command using to set the user
password*/
```

A terminal window with a dark background and light blue text. The prompt is '(kali@kali)-[~]'. The user enters '\$ sudo useradd researcher2', and the system prompts for a password for 'kali:'. The user enters a password, and the prompt changes to '(kali@kali)-[~]'. The user then enters '\$ sudo passwd researcher2', and the system prompts for a 'New password:' and 'Retype new password:'. The user enters the same password twice, and the system confirms 'passwd: password updated successfully'. The prompt returns to '(kali@kali)-[~]'.

```
(kali@kali)-[~]
$ sudo useradd researcher2
[sudo] password for kali:
(kali@kali)-[~]
$ sudo passwd researcher2
New password:
Retype new password:
passwd: password updated successfully
(kali@kali)-[~]
$
```

## 2- Create the group and add the user to it

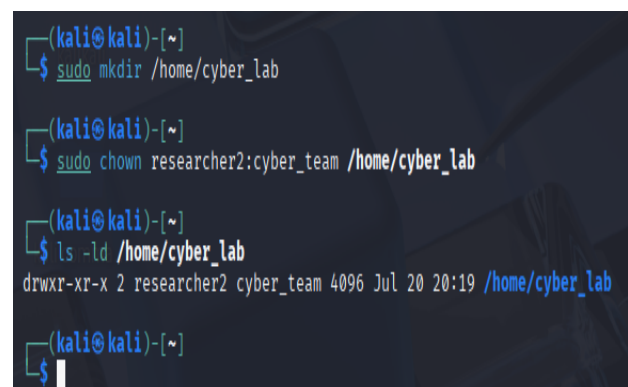
```
$ sudo groupadd cyber_team
/*groupadd a command using to create a new
groups*/
sudo usermod -aG cyber_team researcher2
/*usermod a command using to add user to group*/
groups researcher2
/*show the group the user belongs to*/
```

A terminal window with a dark background and light blue text. The prompt is '(kali@kali)-[~]'. The user enters '\$ sudo groupadd cyber\_team'. The prompt changes to '(kali@kali)-[~]'. The user enters '\$ sudo usermod -aG cyber\_team researcher2'. The prompt changes to '(kali@kali)-[~]'. The user enters '\$ groups researcher2', and the system outputs 'researcher2 : researcher2 cyber\_team'. The prompt returns to '(kali@kali)-[~]'.

```
(kali@kali)-[~]
$ sudo groupadd cyber_team
(kali@kali)-[~]
$ sudo usermod -aG cyber_team researcher2
(kali@kali)-[~]
$ groups researcher2
researcher2 : researcher2 cyber_team
(kali@kali)-[~]
$
```

## 3- Create the project folder and assign ownership

```
sudo mkdir /home/cyber_lab
/*mkdir a command using to create a project
directory*/
sudo chown researcher2:cyber_team
/home/cyber_lab
/*chown a command using to assign directory
ownership*/
ls -ld /home/cyber_lab
/*This command is used to display detailed
information about the directory*/
```

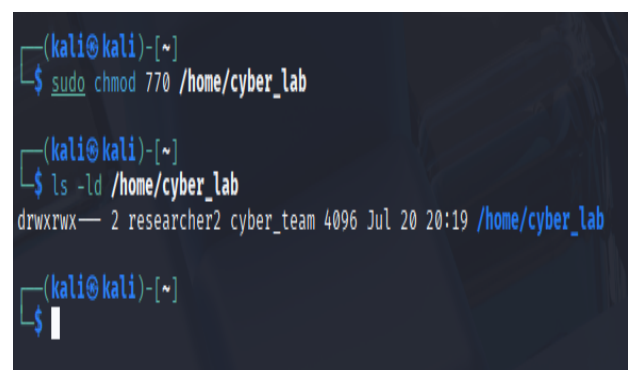
A terminal window with a dark background and light blue text. The prompt is '(kali@kali)-[~]'. The user enters '\$ sudo mkdir /home/cyber\_lab'. The prompt changes to '(kali@kali)-[~]'. The user enters '\$ sudo chown researcher2:cyber\_team /home/cyber\_lab'. The prompt changes to '(kali@kali)-[~]'. The user enters '\$ ls -ld /home/cyber\_lab', and the system outputs 'drwxr-xr-x 2 researcher2 cyber\_team 4096 Jul 20 20:19 /home/cyber\_lab'. The prompt returns to '(kali@kali)-[~]'.

```
(kali@kali)-[~]
$ sudo mkdir /home/cyber_lab
(kali@kali)-[~]
$ sudo chown researcher2:cyber_team /home/cyber_lab
(kali@kali)-[~]
$ ls -ld /home/cyber_lab
drwxr-xr-x 2 researcher2 cyber_team 4096 Jul 20 20:19 /home/cyber_lab
(kali@kali)-[~]
$
```

## 4- Assigning permissions

```
sudo chmod 770 /home/cyber_lab
/*chmod a command using to assigning directory
Assigning permissions*/
ls -ld /home/cyber_lab
/*This command is used to display detailed
information about the directory*/

drwxrwx--- 2 researcher2 cyber_team ...
/*Output*/
```

A terminal window with a dark background and light blue text. The prompt is '(kali@kali)-[~]'. The user enters '\$ sudo chmod 770 /home/cyber\_lab'. The prompt changes to '(kali@kali)-[~]'. The user enters '\$ ls -ld /home/cyber\_lab', and the system outputs 'drwxrwx--- 2 researcher2 cyber\_team 4096 Jul 20 20:19 /home/cyber\_lab'. The prompt returns to '(kali@kali)-[~]'.

```
(kali@kali)-[~]
$ sudo chmod 770 /home/cyber_lab
(kali@kali)-[~]
$ ls -ld /home/cyber_lab
drwxrwx--- 2 researcher2 cyber_team 4096 Jul 20 20:19 /home/cyber_lab
(kali@kali)-[~]
$
```

