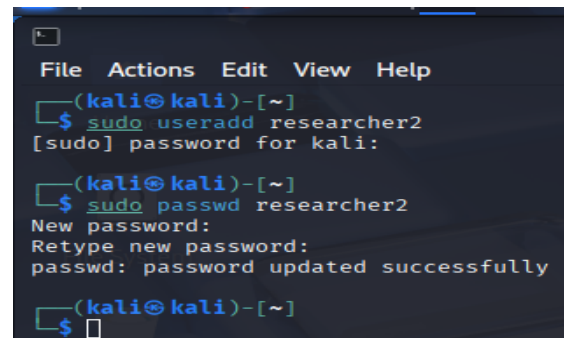


## Managing Users, Groups, and File Permissions in Linux – Cybersecurity Portfolio Project

### 1- Use this command to create new user

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

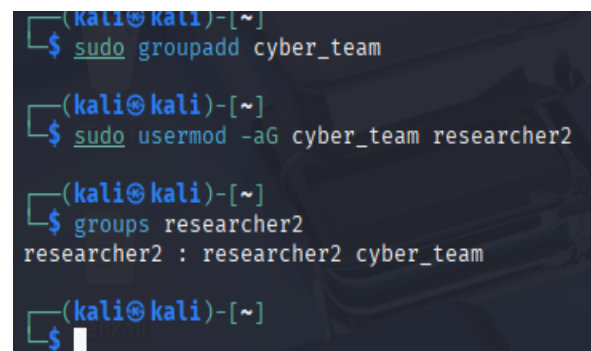
$ sudo passwd researcher2
/*passwd a command using to set the user
password*/
```



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 system prompts for a new password. The user enters a new password, and the system prompts to retype the new password. The user enters the same password, and the system outputs 'passwd: password updated successfully'. The prompt returns to (kali@kali)-[~].

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

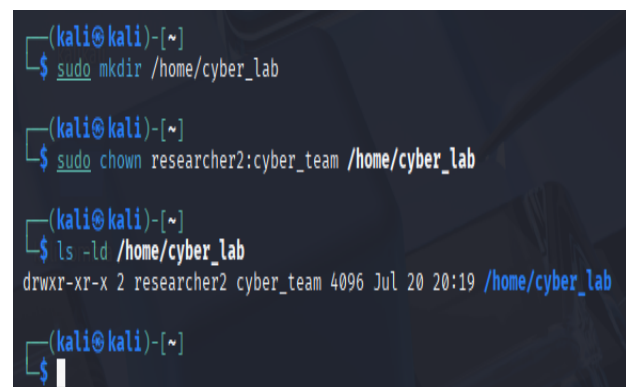
```
$ sudo groupadd cyber_team
/*groupadd a command using to create a new
groups*/
$ sudo usermod -aG cyber_team researcher2
/*usermod a command using to add user to group*/
$ groups researcher2
/*show the group the user belongs to*/
```



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 returns to (kali@kali)-[~]. The user enters 'sudo usermod -aG cyber\_team researcher2'. The prompt returns to (kali@kali)-[~]. The user enters 'groups researcher2', and the system outputs 'researcher2 : researcher2 cyber\_team'. The prompt returns to (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*/
```

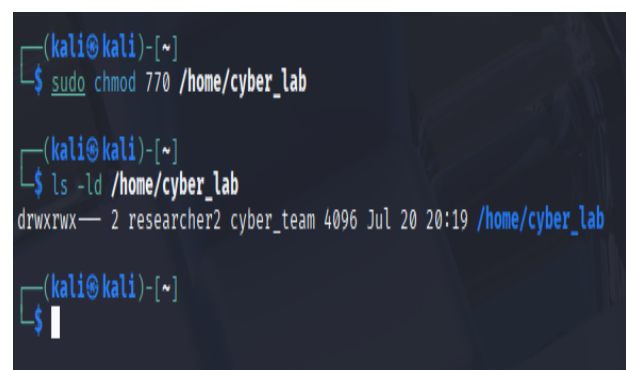


A terminal window with a dark background and light blue text. The prompt is (kali@kali)-[~]. The user enters 'sudo mkdir /home/cyber\_lab'. The prompt returns to (kali@kali)-[~]. The user enters 'sudo chown researcher2:cyber\_team /home/cyber\_lab'. The prompt returns to (kali@kali)-[~]. The user enters '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)-[~].

### 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 returns 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)-[~].