

# Linux User & Group Management Challenge

## Task 1: Create Users

```
[ubuntu@ip-172-31-27-150:/$  
[ubuntu@ip-172-31-27-150:/$ sudo useradd -m tokyo  
[ubuntu@ip-172-31-27-150:/$ sudo useradd -m berlin  
[ubuntu@ip-172-31-27-150:/$ sudo useradd -m professor  
[ubuntu@ip-172-31-27-150:/$ pwd  
/  
[ubuntu@ip-172-31-27-150:/$ sudo passwd tokyo  
[New password:  
[Retype new password:  
passwd: password updated successfully  
[ubuntu@ip-172-31-27-150:/$ sudo passwd berlin  
[New password:  
[Retype new password:  
passwd: password updated successfully  
[ubuntu@ip-172-31-27-150:/$ sudo passwd professor  
[New password:  
[Retype new password:  
passwd: password updated successfully  
[ubuntu@ip-172-31-27-150:/$ cat /etc/passwd | grep tokyo  
tokyo:x:1001:1001::/home/tokyo:/bin/sh
```

```
[ubuntu@ip-172-31-27-150:/$ cat /etc/passwd | grep tokyo  
tokyo:x:1001:1001::/home/tokyo:/bin/sh  
[ubuntu@ip-172-31-27-150:/$ ls -l home  
total 16  
drwxr-x--- 2 berlin    berlin    4096 Feb  4 16:56 berlin  
drwxr-x--- 2 professor professor 4096 Feb  4 16:56 professor  
drwxr-x--- 2 tokyo     tokyo     4096 Feb  4 16:56 tokyo  
drwxr-x--- 4 ubuntu    ubuntu    4096 Feb  4 16:33 ubuntu  
[ubuntu@ip-172-31-27-150:/$
```

## Task 2: Create Groups

```
[ubuntu@ip-172-31-27-150:/$ sudo groupadd developers  
[ubuntu@ip-172-31-27-150:/$ sud groupadd admins  
Command 'sud' not found, but there are 15 similar ones.  
[ubuntu@ip-172-31-27-150:/$ sud groupadd admin  
Command 'sud' not found, but there are 15 similar ones.  
[ubuntu@ip-172-31-27-150:/$ sud groupadd adminn  
Command 'sud' not found, but there are 15 similar ones.  
[ubuntu@ip-172-31-27-150:/$  
[ubuntu@ip-172-31-27-150:/$  
[ubuntu@ip-172-31-27-150:/$ sudo groupadd admins  
[ubuntu@ip-172-31-27-150:/$  
[ubuntu@ip-172-31-27-150:/$  
[ubuntu@ip-172-31-27-150:/$ cat /etc/group | grep developers  
developers:x:1004:  
[ubuntu@ip-172-31-27-150:/$
```

## Task 3: Assign Users to Groups

```
[ubuntu@ip-172-31-27-150:/$ sudo usermod -aG developers tokyo
usermod: group 'developers' does not exist
[ubuntu@ip-172-31-27-150:/$ sudo usermod -aG developers tokyo
[ubuntu@ip-172-31-27-150:/$ sudo usermod -aG developers,admins berlin
[ubuntu@ip-172-31-27-150:/$ sudo usermod -aG admins professor
[ubuntu@ip-172-31-27-150:/$
[ubuntu@ip-172-31-27-150:/$
[ubuntu@ip-172-31-27-150:/$ groups tokyo
groups: 'tokyp': no such user
[ubuntu@ip-172-31-27-150:/$ groups tokyo
tokyo : tokyo developers
[ubuntu@ip-172-31-27-150:/$ groups berlin
berlin : berlin developers admins
[ubuntu@ip-172-31-27-150:/$ groups professor
professor : professor admins
ubuntu@ip-172-31-27-150:/$ █
```

## Task 4: Shared Directory

```
professor : professor admins
[ubuntu@ip-172-31-27-150:/$ sudo chmod 777 /opt/dev-project
chmod: cannot access '/opt/dev-project': No such file or directory
[ubuntu@ip-172-31-27-150:/$
[ubuntu@ip-172-31-27-150:/$ sudo mkdir /opt/dev-project
[ubuntu@ip-172-31-27-150:/$ sudo chgrp developers /opt/dev-project
chgrp: invalid group: 'developers'
[ubuntu@ip-172-31-27-150:/$ sudo chgrp developers /opt/dev-project
[ubuntu@ip-172-31-27-150:/$ sudo chmod 775 /opt/dev-project
[ubuntu@ip-172-31-27-150:/$ ls -ld /opt/dev-project
drwxrwxr-x 2 root developers 4096 Feb  4 17:14 /opt/dev-project
ubuntu@ip-172-31-27-150:/$ █
```