

## USER MANAGEMENT AND GROUP MANAGEMENT

1. Create a group named "Avengers."

```
$ sudo groupadd Avengers
```

2. Create user accounts for each team member with the following details:

- tony : UID 1001, Home Directory: /home/ironman, Shell: /bin/zsh, Comment: Tony Stark
- steve : UID 1002, Home Directory: /home/captainamerica, Shell: /bin/sh, Comment: Steve Rogers
- natasha : UID 1003, Home Directory: /home/blackwidow, Shell: /bin/bash, Comment: Natasha Romanoff
- bruce : UID 1004, Home Directory: /home/hulk, Shell: /bin/bash, Comment: Bruce Banner
- thor : UID 1005, Home Directory: /home/thor, Shell: /bin/bash, Comment: Thor Odinson

3. Assign each user account to the "Avengers" group as their primary group

```
$ sudo useradd -u 1001 -g Avengers -m -d /home/ironman -s /bin/zsh -c "Tony Stark" tony
$ sudo useradd -u 1002 -g Avengers -m -d /home/captainamerica -s /bin/sh -c "Steve" steve
$ sudo useradd -u 1003 -g Avengers -m -d /home/blackwidow -s /bin/bash -c "Natasha Romanoff" natasha
$ sudo useradd -u 1004 -g Avengers -m -d /home/hulk -s /bin/bash -c "Bruce Banner" bruce
$ sudo useradd -u 1005 -g Avengers -m -d /home/thor -s /bin/bash -c "Thor Odinson" thor
```

4. Later on, the company decides to change Natasha Romanoff's username to "Widow" and also update her home directory accordingly.

```
$ sudo usermod -l Widow natasha
$ sudo usermod -d /home/widow Widow
```

5. Additionally, a new member, Clint , joins the team. You need to create a user account for Clint with UID 1006, Home Directory: /home/Hawkeye, Shell: /bin/bash, and Comment: Clint Barton. Add him to the "Avengers" group

```
$ sudo useradd -u 1006 -g Avengers -m -d /home/Hawkeye -s /bin/bash -c "Clint Barton" Clint
```

6. The company also decides to create a sub-group named "Leaders" within the "Avengers" group, and add Steve Rogers (Captain America) to this sub-group.

```
$ sudo groupadd Leaders
sudo usermod -aG Leaders steve
$ groups steve
steve : Avengers Leaders
```