# Changing the user name in linux

## Step 1 : login as a root user

```
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$ whoami
sangeetha-n
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$
```

## Step 2 : create a user named 'temp1'

```
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$ sudo adduser temp1
info: Adding user `temp1' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `temp1' (1002) ...
info: Adding new user `temp1' (1002) with group `temp1 (1002)' ...
info: Creating home directory `/home/temp1' ...
info: Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password fails the dictionary check - it is too simplistic/systematic
Retype new password:
passwd: password updated successfully
Changing the user information for temp1
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n]
info: Adding new user `temp1' to supplemental / extra groups `users' ...
info: Adding user `temp1' to group `users' ...
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$
```

## Step 3 : rename 'temp1' to '1rv24mc094_sangeethan' as a root user

```
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$ sudo usermod -l 1rv24mc094_sangeethan temp1
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$ awk -F: '$3 >= 1000 {print $1}' /etc/passwd
nobody
sangeetha-n
1rv24mc094_sangeethan
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$
```

## Step 4 : Whenever we create a user in Ubuntu:

A group with the same name as the user is automatically created.

So to reflect the newly named user we have update the home directory and its group name

Before: `temp1:x:1002:1rv24mc094_sangeethan`

1. Create a new group with the new username
2. Assign the user to the new primary group
3. Rename / move the home directory

```
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$ sudo groupadd 1rv24mc094_sangeethan
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$ sudo usermod -g 1rv24mc094_sangeethan 1rv24mc094_sangeethan
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$ sudo mv /home/temp /home/1rv24mc094_sangeethan
mv: cannot stat '/home/temp': No such file or directory
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$ sudo mv /home/temp1 /home/1rv24mc094_sangeethan
```

Step 5 : login as a user and very the renamed user via 'whoami'

```
1rv24mc094_sangeethan@sangeetha-n-ThinkPad-X1-Carbon-6th:/home/sangeetha-n$ whoami
1rv24mc094_sangeethan
```

# Install Docker

## Step 1 : update the system

```
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$ sudo apt update
sudo apt upgrade -y
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:2 http://in.archive.ubuntu.com/ubuntu noble InRelease
Get:3 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Hit:4 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease
Get:5 http://in.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1,489 kB]
Fetched 1,742 kB in 5s (326 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
135 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
```

## Step 2: Install required packages

```
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$ sudo apt install apt-transport-https ca-certificates curl software-properties-common lsb-release -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ca-certificates is already the newest version (20240203).
ca-certificates set to manually installed.
software-properties-common is already the newest version (0.99.49.3).
software-properties-common set to manually installed.
lsb-release is already the newest version (12.0-2).
lsb-release set to manually installed.
The following package was automatically installed and is no longer required:
  libllvm19
Use 'sudo apt autoremove' to remove it.
```

## Step 3: Add Docker's official GPG key

```
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/
ker-archive-keyring.gpg
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$
```

## Step 4: Add Docker repository

```
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$ echo "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker-archive-keyring.gp
https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$
```

## Step 5:Check if Docker repo is recognized:

```
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$ apt-cache policy docker-ce
docker-ce:
  Installed: (none)
  Candidate: (none)
  Version table:
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$
```

## Step 6: Install Docker

```
sangeetha-n@sangeetha-n-ThinkPad-X1-Carbon-6th:~$  sudo apt install docker-ce docker-ce-cli containerd.io -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Package docker-ce is not available, but is referred to by another package.
This may mean that the package is missing, has been obsoleted, or
```

## Step 7: Start and enable Docker