1. Changing username

>First in the existing account create a temporary user

Sudo adduser tempuser

>Then give sudo privileges to tempuser

Sudo usermod -aG sudo tempuser

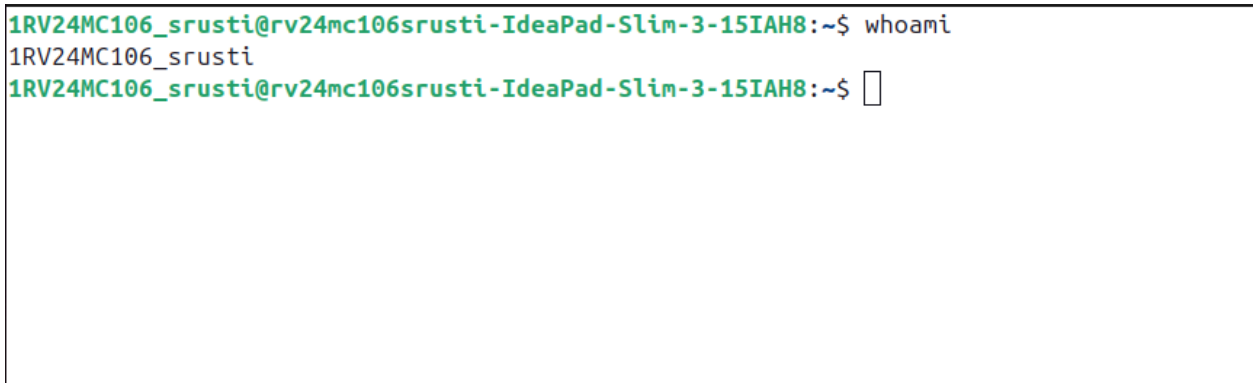
>then logout from that account and login into tempuser

>then rename the old username

Sudo usermod -l 1RV24MC106_srusti srusti

>logout from tempuser and login to 1RV24MC106_srusti

>In the terminal run command-”whoami” it should show 1RV24MC106_srusti



>after that delete tempuser

sudo deluser tempuser

Sudo rm -r /home/tempuser

2.Installing Docker

>Set up Docker's apt repository.

Add Docker's official GPG key:

sudo apt-get update

sudo apt-get install ca-certificates curl

sudo install -m 0755 -d /etc/apt/keyrings

sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o

/etc/apt/keyrings/docker.asc sudo chmod a+r
/etc/apt/keyrings/docker.asc

```
1RV24MC106_srusti@rv24mc106srusti-IdeaPad-Slim-3-15IAH8:~$ sudo apt-get update
Hit:1 http://in.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:3 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
1RV24MC106_srusti@rv24mc106srusti-IdeaPad-Slim-3-15IAH8:~$ sudo apt-get install ca-certificates curl
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.
The following NEW packages will be installed:
  curl
0 upgraded, 1 newly installed, 0 to remove and 85 not upgraded.
Need to get 226 kB of archives.
After this operation, 534 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 curl amd64 8.5.0-2ubuntu10.6 [226 kB]
Fetched 226 kB in 2s (120 kB/s)
Selecting previously unselected package curl.
(Reading database ... 150147 files and directories currently installed.)
Preparing to unpack .../curl_8.5.0-2ubuntu10.6_amd64.deb ...
Unpacking curl (8.5.0-2ubuntu10.6) ...
Setting up curl (8.5.0-2ubuntu10.6) ...
Processing triggers for man-db (2.12.0-4build2) ...
1RV24MC106_srusti@rv24mc106srusti-IdeaPad-Slim-3-15IAH8:~$ sudo install -m 0755 -d /etc/apt/keyrings
1RV24MC106_srusti@rv24mc106srusti-IdeaPad-Slim-3-15IAH8:~$ sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
1RV24MC106_srusti@rv24mc106srusti-IdeaPad-Slim-3-15IAH8:~$ sudo chmod a+r /etc/apt/keyrings/docker.asc
1RV24MC106_srusti@rv24mc106srusti-IdeaPad-Slim-3-15IAH8:~$ echo \
>  "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \
  $(. /etc/os-release && echo "${UBUNTU_CODENAME:-$VERSION_CODENAME}") stable" | \
  sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
1RV24MC106_srusti@rv24mc106srusti-IdeaPad-Slim-3-15IAH8:~$ sudo apt-get update
Get:1 https://download.docker.com/linux/ubuntu noble InRelease [48.5 kB]
Get:2 https://download.docker.com/linux/ubuntu noble/stable amd64 Packages [33.0 kB]
Hit:3 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu noble InRelease
Hit:5 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:6 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease
Fetched 81.5 kB in 1s (63.5 kB/s)
Reading package lists... Done
1RV24MC106_srusti@rv24mc106srusti-IdeaPad-Slim-3-15IAH8:~$ sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin
Reading package lists... Done
Building dependency tree... Done
```

3. Installing docker packages

sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

>To verify that Docker is running

sudo systemctl status docker

```
1RV24MC106_srusti@rv24mc106srusti-IdeaPad-Slim-3-15IAH8:~$ sudo systemctl status docker
● docker.service - Docker Application Container Engine
     Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
     Active: active (running) since Wed 2025-10-15 20:24:06 IST; 1min 0s ago
TriggeredBy: ● docker.socket
       Docs: https://docs.docker.com
   Main PID: 15510 (dockerd)
      Tasks: 17
     Memory: 24.0M (peak: 25.6M)
        CPU: 309ms
     CGroup: /system.slice/docker.service
             └─15510 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Oct 15 20:24:06 rv24mc106srusti-IdeaPad-Slim-3-15IAH8 dockerd[15510]: time="2025-10-15T20:24:06.069094820+05:30" level=info msg="detected 127.0.0.53 nameserver, assuming systemd-resol>
Oct 15 20:24:06 rv24mc106srusti-IdeaPad-Slim-3-15IAH8 dockerd[15510]: time="2025-10-15T20:24:06.091701238+05:30" level=info msg="Creating a containerd client" address=/run/containerd/>
Oct 15 20:24:06 rv24mc106srusti-IdeaPad-Slim-3-15IAH8 dockerd[15510]: time="2025-10-15T20:24:06.186117095+05:30" level=info msg="Loading containers: start."
Oct 15 20:24:06 rv24mc106srusti-IdeaPad-Slim-3-15IAH8 dockerd[15510]: time="2025-10-15T20:24:06.521493704+05:30" level=info msg="Loading containers: done."
Oct 15 20:24:06 rv24mc106srusti-IdeaPad-Slim-3-15IAH8 dockerd[15510]: time="2025-10-15T20:24:06.547333924+05:30" level=info msg="Docker daemon" commit=f8215cc containerd-snapshotter=f>
Oct 15 20:24:06 rv24mc106srusti-IdeaPad-Slim-3-15IAH8 dockerd[15510]: time="2025-10-15T20:24:06.547416009+05:30" level=info msg="Initializing buildkit"
Oct 15 20:24:06 rv24mc106srusti-IdeaPad-Slim-3-15IAH8 dockerd[15510]: time="2025-10-15T20:24:06.561929531+05:30" level=info msg="Completed buildkit initialization"
Oct 15 20:24:06 rv24mc106srusti-IdeaPad-Slim-3-15IAH8 dockerd[15510]: time="2025-10-15T20:24:06.567455611+05:30" level=info msg="Daemon has completed initialization"
Oct 15 20:24:06 rv24mc106srusti-IdeaPad-Slim-3-15IAH8 dockerd[15510]: time="2025-10-15T20:24:06.567487509+05:30" level=info msg="API listen on /run/docker.sock"
Oct 15 20:24:06 rv24mc106srusti-IdeaPad-Slim-3-15IAH8 systemd[1]: Started docker.service - Docker Application Container Engine.
```

4. Verify that the installation is successful by running the `hello-world` image

>sudo systemctl start docker

>sudo docker run hello-world

```
1RV24MC106_srusti@rv24mc106srusti-IdeaPad-Slim-3-15IAH8:~$ sudo systemctl start docker
1RV24MC106_srusti@rv24mc106srusti-IdeaPad-Slim-3-15IAH8:~$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
17eec7bbc9d7: Pull complete
Digest: sha256:6dc565aa630927052111f823c303948cf83670a3903ffa3849f1488ab517f891
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
 $ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
 https://hub.docker.com/

For more examples and ideas, visit:
 https://docs.docker.com/get-started/
```