

## CHANGING USERNAME IN LINUX:

1. check your user name

>whoami

2. Create a temporary user

>sudo adduser tempadmin

3. Add the new user to sudoers

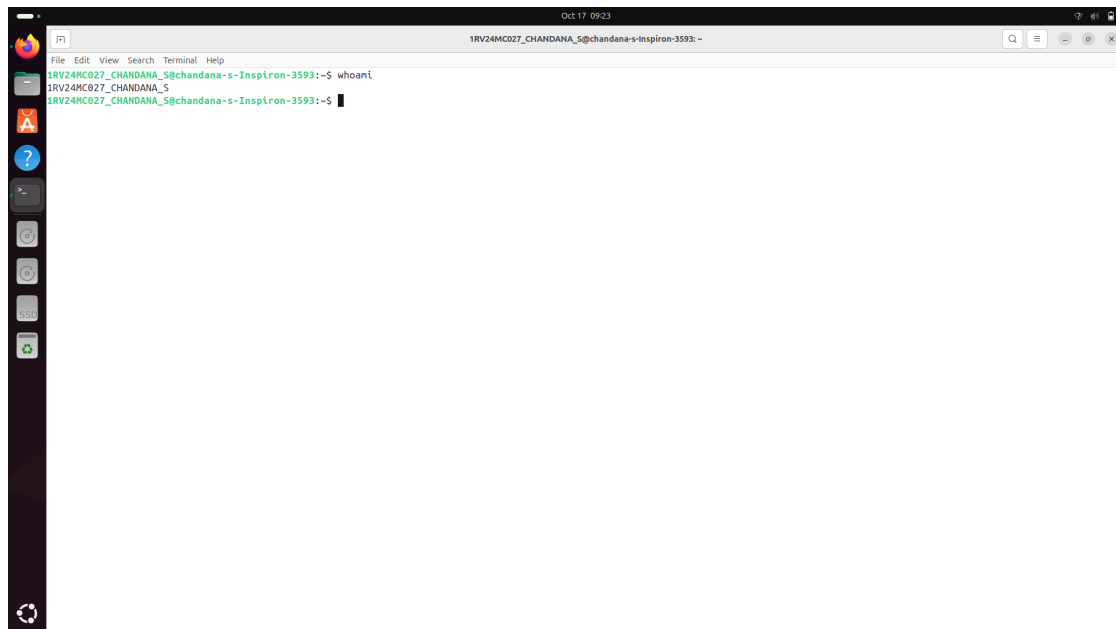
> sudo usermod -aG sudo tempadmin

4. Logout from the current user via GUI and login to tempadmin

5. In the terminal of tempadmin,

>sudo usermod -l 1RV24MC027\_CHANDANA\_S chandana-s

6. Now type the below command in original user after logging again via GUI:



# INSTALLING DOCKER :

## *1.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
```

# Add the repository to Apt sources:

```
echo \
```

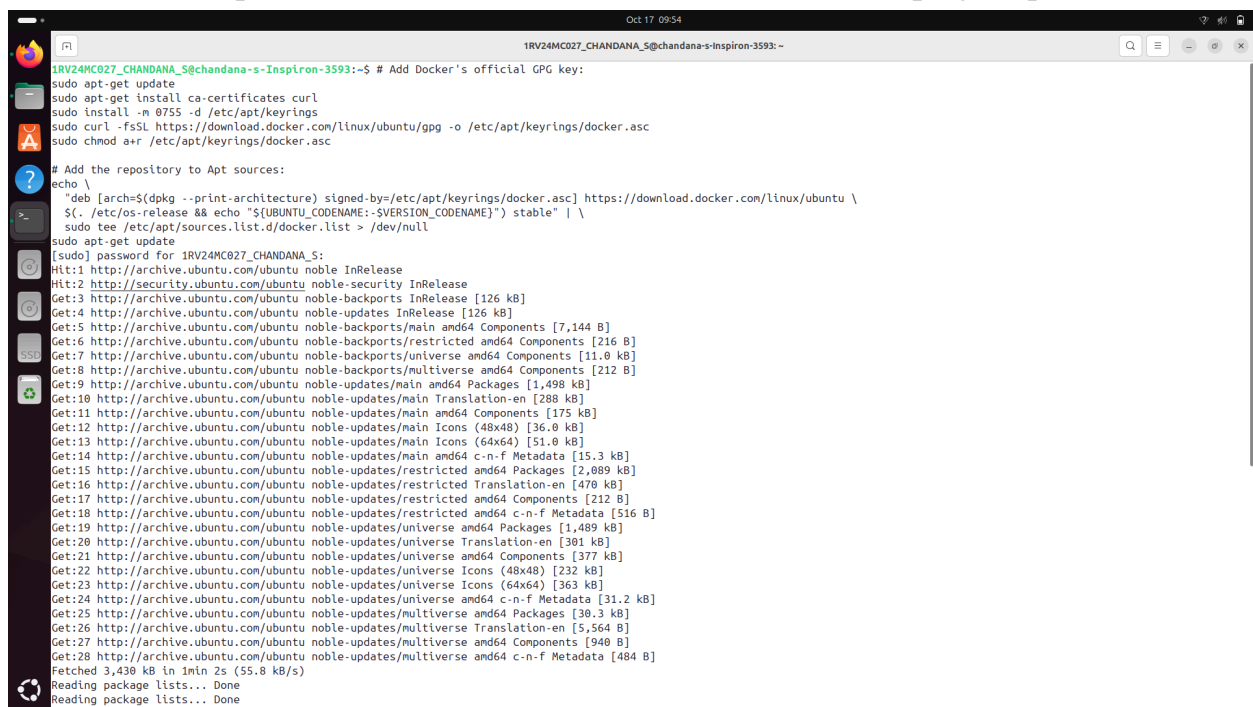
```
"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc]
```

```
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 sudo apt-get update
```

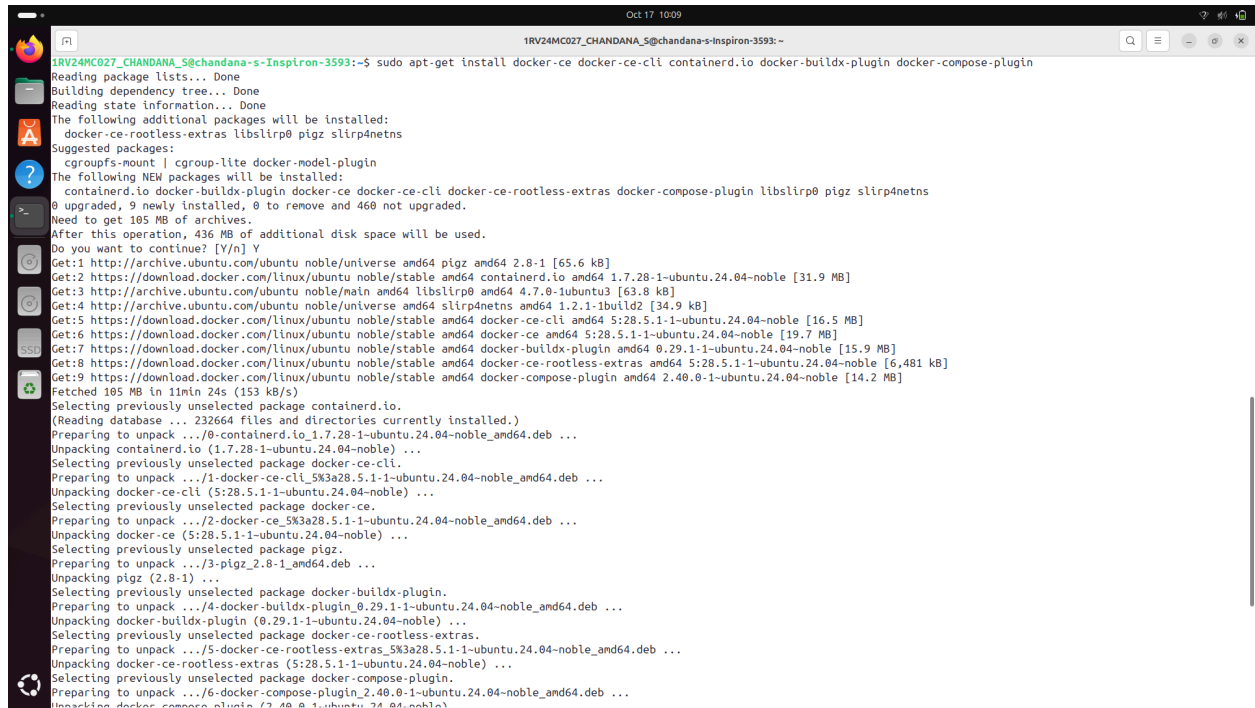


```
1RV24MC027_CHANDANA_5@chandana-s-Inspiron-3593:~$ # Add Docker's official GPG key:
sudo apt-get update
sudo apt-get install ca-certificates curl
sudo install -m 0755 -d /etc/apt/keyrings
sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
sudo chmod a+r /etc/apt/keyrings/docker.asc

# Add the repository to Apt sources:
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
sudo apt-get update
[sudo] password for 1RV24MC027_CHANDANA_5:
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:3 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7,144 B]
Get:6 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:7 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [11.0 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:9 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1,498 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble-updates/main Translation-en [288 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble-updates/main Icons (48x48) [36.0 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/main Icons (64x64) [51.0 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [15.3 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [2,089 kB]
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [470 kB]
Get:17 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:18 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 c-n-f Metadata [516 B]
Get:19 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1,489 kB]
Get:20 http://archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [301 kB]
Get:21 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [377 kB]
Get:22 http://archive.ubuntu.com/ubuntu noble-updates/universe Icons (48x48) [232 kB]
Get:23 http://archive.ubuntu.com/ubuntu noble-updates/universe Icons (64x64) [363 kB]
Get:24 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [31.2 kB]
Get:25 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [30.3 kB]
Get:26 http://archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [5,564 B]
Get:27 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:28 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [484 B]
Fetched 3,430 kB in 1min 2s (55.8 kB/s)
Reading package lists... Done
Reading package lists... Done
```

## 2.Install the Docker packages.

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

A terminal window screenshot showing the execution of the command 'sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin'. The terminal output displays the package lists, dependency tree, and state information. It lists additional packages to be installed (docker-ce-rootless-extras, libslirp0, pigz, slirp4netns) and suggested packages (cgroupfs-mount, cgroup-lite, docker-model-plugin). It shows the disk space requirements (185 MB of archives, 436 MB of additional disk space) and asks for confirmation to continue. The installation progress is shown with 'Get' lines for each package and their sizes. Finally, it shows the unpacking of each package, including containerd.io, docker-ce-cli, docker-ce, pigz, docker-buildx-plugin, docker-ce-rootless-extras, and docker-compose-plugin.

```
1RV24MC027_CHANDANA_5@chandana-s-Inspiron-3593:~$ 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
Reading state information... Done
The following additional packages will be installed:
  docker-ce-rootless-extras libslirp0 pigz slirp4netns
Suggested packages:
  cgroupfs-mount | cgroup-lite docker-model-plugin
The following NEW packages will be installed:
  containerd.io docker-buildx-plugin docker-ce docker-ce-cli docker-ce-rootless-extras docker-compose-plugin libslirp0 pigz slirp4netns
0 upgraded, 9 newly installed, 0 to remove and 460 not upgraded.
Need to get 185 MB of archives.
After this operation, 436 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://archive.ubuntu.com/ubuntu noble/universe amd64 pigz amd64 2.8-1 [65.6 kB]
Get:2 https://download.docker.com/linux/ubuntu noble/stable amd64 containerd.io amd64 1.7.28-1-ubuntu.24.04-noble [31.9 MB]
Get:3 http://archive.ubuntu.com/ubuntu noble/main amd64 libslirp0 amd64 4.7.0-1ubuntu3 [63.8 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble/universe amd64 slirp4netns amd64 1.2.1-1build2 [34.9 kB]
Get:5 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-cli amd64 5:28.5.1-1-ubuntu.24.04-noble [16.5 MB]
Get:6 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce amd64 5:28.5.1-1-ubuntu.24.04-noble [19.7 MB]
Get:7 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-buildx-plugin amd64 0.29.1-1-ubuntu.24.04-noble [15.9 MB]
Get:8 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-rootless-extras amd64 5:28.5.1-1-ubuntu.24.04-noble [6,481 kB]
Get:9 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-compose-plugin amd64 2.40.0-1-ubuntu.24.04-noble [14.2 MB]
Fetched 185 MB in 11min 24s (153 kB/s)
Selecting previously unselected package containerd.io.
(Reading database ... 232664 files and directories currently installed.)
Preparing to unpack .../0-containerd.io_1.7.28-1-ubuntu.24.04-noble_amd64.deb ...
Unpacking containerd.io (1.7.28-1-ubuntu.24.04-noble) ...
Selecting previously unselected package docker-ce-cli.
Preparing to unpack .../1-docker-ce-cli_5%3a28.5.1-1-ubuntu.24.04-noble_amd64.deb ...
Unpacking docker-ce-cli (5:28.5.1-1-ubuntu.24.04-noble) ...
Selecting previously unselected package docker-ce.
Preparing to unpack .../2-docker-ce_5%3a28.5.1-1-ubuntu.24.04-noble_amd64.deb ...
Unpacking docker-ce (5:28.5.1-1-ubuntu.24.04-noble) ...
Selecting previously unselected package pigz.
Preparing to unpack .../3-pigz_2.8-1_amd64.deb ...
Unpacking pigz (2.8-1) ...
Selecting previously unselected package docker-buildx-plugin.
Preparing to unpack .../4-docker-buildx-plugin_0.29.1-1-ubuntu.24.04-noble_amd64.deb ...
Unpacking docker-buildx-plugin (0.29.1-1-ubuntu.24.04-noble) ...
Selecting previously unselected package docker-ce-rootless-extras.
Preparing to unpack .../5-docker-ce-rootless-extras_5%3a28.5.1-1-ubuntu.24.04-noble_amd64.deb ...
Unpacking docker-ce-rootless-extras (5:28.5.1-1-ubuntu.24.04-noble) ...
Selecting previously unselected package docker-compose-plugin.
Preparing to unpack .../6-docker-compose-plugin_2.40.0-1-ubuntu.24.04-noble_amd64.deb ...
Unpacking docker-compose-plugin (2.40.0-1-ubuntu.24.04-noble) ...
```

## 3. Check docker status

> sudo systemctl status docker

```
Oct 17 10:13
1RV24MC027_CHANDANA_S@chandana-s-inspiron-3593: ~

Selecting previously unselected package libslirp0:amd64.
Preparing to unpack .../7-libslirp0_4.7.0-1ubuntu3_amd64.deb ...
Unpacking libslirp0:amd64 (4.7.0-1ubuntu3) ...
Selecting previously unselected package slirp4netns.
Preparing to unpack .../8-slirp4netns_1.2.1-1build2_amd64.deb ...
Unpacking slirp4netns (1.2.1-1build2) ...
Setting up docker-buildx-plugin (0.29.1-1-ubuntu.24.04-noble) ...
Setting up containerd.io (1.7.28-1-ubuntu.24.04-noble) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /usr/lib/systemd/system/containerd.service.
Setting up docker-compose-plugin (2.40.0-1-ubuntu.24.04-noble) ...
Setting up docker-ce-cli (5:28.5.1-1-ubuntu.24.04-noble) ...
Setting up libslirp0:amd64 (4.7.0-1ubuntu3) ...
Setting up pigz (2.8-1) ...
Setting up docker-ce-rootless-extras (5:28.5.1-1-ubuntu.24.04-noble) ...
Setting up slirp4netns (1.2.1-1build2) ...
Setting up docker-ce (5:28.5.1-1-ubuntu.24.04-noble) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.4) ...
1RV24MC027_CHANDANA_S@chandana-s-inspiron-3593:~$ sudo systemctl status docker
[sudo] password for 1RV24MC027_CHANDANA_S:
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
   Active: active (running) since Fri 2025-10-17 10:09:00 IST; 3min 37s ago
     TriggeredBy: ● docker.socket
       Docs: https://docs.docker.com
      Main PID: 17183 (dockerd)
        Tasks: 13
       Memory: 24.7M (peak: 26.2M)
          CPU: 488ms
      CGroup: /system.slice/docker.service
              └─17183 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Oct 17 10:08:42 chandana-s-Inspiron-3593 dockerd[17183]: time="2025-10-17T10:08:42.623377125+05:30" level=info msg="detected 127.0.0.53 nameserver, assuming systemd-resolved, so using it"
Oct 17 10:08:44 chandana-s-Inspiron-3593 dockerd[17183]: time="2025-10-17T10:08:44.266298953+05:30" level=info msg="Creating a containerd client" address=/run/containerd/containerd.sock
Oct 17 10:08:48 chandana-s-Inspiron-3593 dockerd[17183]: time="2025-10-17T10:08:48.173649863+05:30" level=info msg="Loading containers: start."
Oct 17 10:08:56 chandana-s-Inspiron-3593 dockerd[17183]: time="2025-10-17T10:08:56.802882406+05:30" level=info msg="Loading containers: done."
Oct 17 10:08:58 chandana-s-Inspiron-3593 dockerd[17183]: time="2025-10-17T10:08:58.122869387+05:30" level=info msg="Docker daemon" commit=f8215cc containerd-snapshotter=false storage=overlayfs2
Oct 17 10:08:58 chandana-s-Inspiron-3593 dockerd[17183]: time="2025-10-17T10:08:58.122220253+05:30" level=info msg="Initializing buildkit"
Oct 17 10:09:00 chandana-s-Inspiron-3593 dockerd[17183]: time="2025-10-17T10:09:00.451418982+05:30" level=info msg="Completed buildkit initialization"
Oct 17 10:09:00 chandana-s-Inspiron-3593 dockerd[17183]: time="2025-10-17T10:09:00.460883982+05:30" level=info msg="Daemon has completed initialization"
Oct 17 10:09:00 chandana-s-Inspiron-3593 dockerd[17183]: time="2025-10-17T10:09:00.461066638+05:30" level=info msg="API listen on /run/docker.sock"
Oct 17 10:09:00 chandana-s-Inspiron-3593 systemd[1]: Started docker.service - Docker Application Container Engine.

lines 1-22/22 (END)
```

# 4.RUN A SAMPLE CONTAINER

## sudo docker run hello-world

```
Oct 17 10:18
1RV24MC027_CHANDANA_S@chandana-s-inspiron-3593: ~
1RV24MC027_CHANDANA_S@chandana-s-inspiron-3593: ~

1RV24MC027_CHANDANA_S@chandana-s-Inspiron-3593:~$ sudo docker run hello-world
[sudo] password for 1RV24MC027_CHANDANA_S:
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
17hec7bbc9d7: Pull complete
Digest: sha256:6dc565a63982785211f823c383948cf83678a3903ffa3849f1488ab517f891
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/

1RV24MC027_CHANDANA_S@chandana-s-Inspiron-3593:~$
```