

Steps:

-> changing user name:

1) add a user(temp):

sudo adduser temp

2) give sudo privileges to temp

sudo usermod -aG sudo temp

3) login to temp

4) change username of mainuser:

sudo usermod -l newname oldname

5) logout

6) login to main user

7) check if the new username is updated in terminal by typing whoami command

-> docker installation steps:

1) search for docker installation

2) click only the link which has docs.docker.*(it is the official website)

3) follow the installation steps and commands given in the website

Add Docker's official GPG key:

sudo apt-get update

```
1RV24MC067_meghanagoud@Hrithik:~$ whoami
1RV24MC067_meghanagoud
1RV24MC067_meghanagoud@Hrithik:~$ # 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

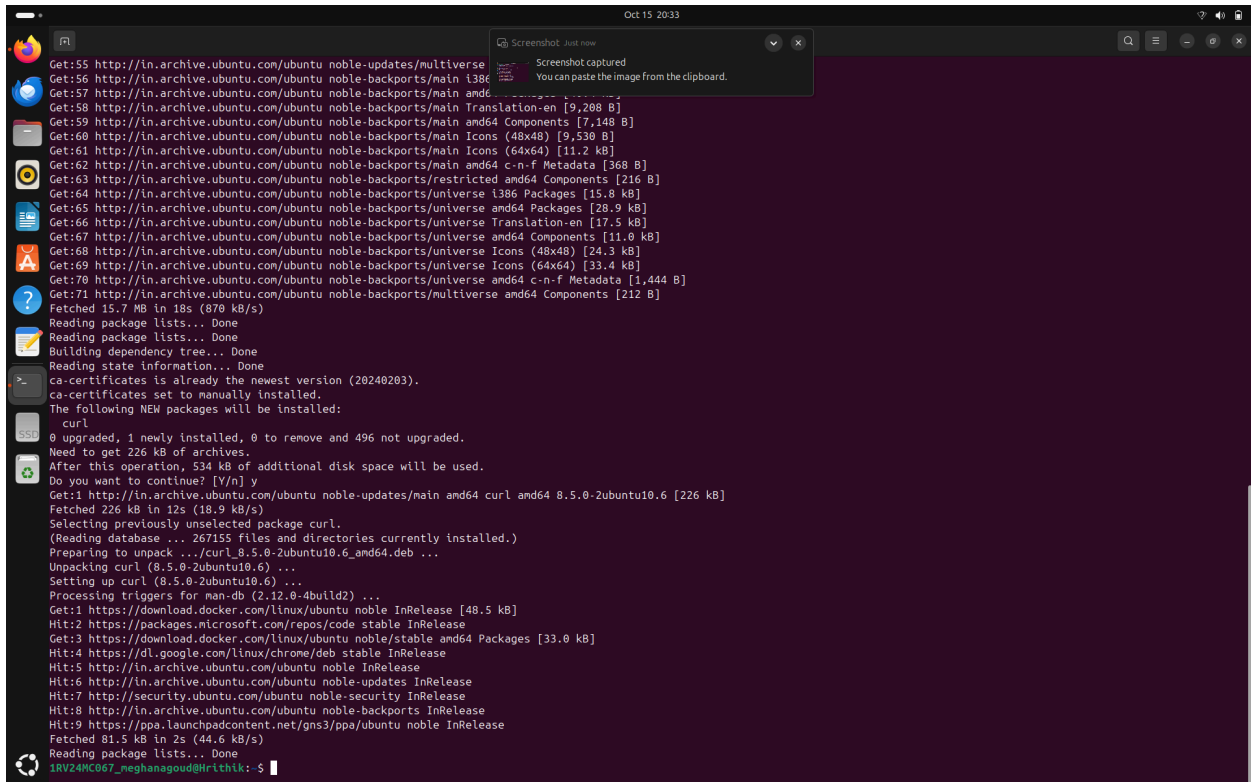
# Add the repository to Apt sources:
echo \
"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \
$(. /etc/os-release && echo "${UBUNTU_CODENAME:-$VERSION_CODENAME}") stable" | \
sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
sudo apt-get update
[sudo] password for 1RV24MC067_meghanagoud:
Get:1 https://packages.microsoft.com/repos/code stable InRelease [3,590 B]
Get:2 https://packages.microsoft.com/repos/code stable/main amd64 Packages [19.8 kB]
Get:3 https://packages.microsoft.com/repos/code stable/main armhf Packages [19.9 kB]
Get:4 https://packages.microsoft.com/repos/code stable/main arm64 Packages [19.9 kB]
Get:5 https://dl.google.com/linux/chrome/deb stable InRelease [1,825 B]
Hit:6 http://ln.archive.ubuntu.com/ubuntu noble InRelease
Get:7 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:8 https://ppa.launchpadcontent.net/gns3/ppa/ubuntu noble InRelease
Get:9 http://ln.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:10 https://dl.google.com/linux/chrome/deb stable/main amd64 Packages [1,209 B]
Get:11 http://ln.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:12 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [1,217 kB]
Get:13 http://ln.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1,498 kB]
Get:14 http://ln.archive.ubuntu.com/ubuntu noble-updates/main i386 Packages [537 kB]
Get:15 http://ln.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [288 kB]
Get:16 http://security.ubuntu.com/ubuntu noble-security/main i386 Packages [335 kB]
Get:17 http://ln.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175 kB]
Get:18 http://ln.archive.ubuntu.com/ubuntu noble-updates/main Icons (48x48) [36.0 kB]
Get:19 http://ln.archive.ubuntu.com/ubuntu noble-updates/main Icons (64x64) [51.0 kB]
Get:20 http://ln.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [15.3 kB]
Get:21 http://ln.archive.ubuntu.com/ubuntu noble-updates/restricted i386 Packages [22.8 kB]
Get:22 http://ln.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [2,084 kB]
Get:23 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [202 kB]
Get:24 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.6 kB]
Get:25 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [8,748 B]
Get:26 http://security.ubuntu.com/ubuntu noble-security/restricted i386 Packages [20.5 kB]
Get:27 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [1,970 kB]
Get:28 http://ln.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [471 kB]
Get:29 http://ln.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:30 http://ln.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 c-n-f Metadata [544 B]
Get:31 http://ln.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1,490 kB]
Get:32 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [450 kB]
Get:33 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:34 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 c-n-f Metadata [520 B]
Get:35 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [884 kB]
```

```

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

```

4) if required provide password in the terminal during installation



```

Oct 15 2033
Get:55 http://in.archive.ubuntu.com/ubuntu noble-updates/multiverse
Get:56 http://in.archive.ubuntu.com/ubuntu noble-backports/main i386
Get:57 http://in.archive.ubuntu.com/ubuntu noble-backports/main amd64
Get:58 http://in.archive.ubuntu.com/ubuntu noble-backports/main Translation-en [9,288 B]
Get:59 http://in.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7,148 B]
Get:60 http://in.archive.ubuntu.com/ubuntu noble-backports/main Icons (48x48) [9,538 B]
Get:61 http://in.archive.ubuntu.com/ubuntu noble-backports/main Icons (64x64) [11.2 kB]
Get:62 http://in.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [368 B]
Get:63 http://in.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:64 http://in.archive.ubuntu.com/ubuntu noble-backports/universe i386 Packages [15.8 kB]
Get:65 http://in.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [28.9 kB]
Get:66 http://in.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [17.5 kB]
Get:67 http://in.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [11.0 kB]
Get:68 http://in.archive.ubuntu.com/ubuntu noble-backports/universe Icons (48x48) [24.3 kB]
Get:69 http://in.archive.ubuntu.com/ubuntu noble-backports/universe Icons (64x64) [33.4 kB]
Get:70 http://in.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1,444 B]
Get:71 http://in.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Fetched 15.7 MB in 18s (870 kB/s)
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 496 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 12s (18.9 kB/s)
Selecting previously unselected package curl.
(Reading database ... 267155 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) ...
Get:1 https://download.docker.com/linux/ubuntu noble InRelease [48.5 kB]
Hit:2 https://packages.microsoft.com/repos/code stable InRelease
Get:3 https://download.docker.com/linux/ubuntu noble/stable amd64 Packages [33.0 kB]
Hit:4 https://dl.google.com/linux/chrome/deb stable InRelease
Hit:5 http://in.archive.ubuntu.com/ubuntu noble InRelease
Hit:6 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:7 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:8 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:9 https://ppa.launchpadcontent.net/gns3/ppa/ubuntu noble InRelease
Fetched 81.5 kB in 2s (44.6 kB/s)
Reading package lists... Done
1RV24MC067_meghanagoud@Hrithik: $

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Oct 15 20:38
1RV24MC067_meghanagoud@Hrithik: ~
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_5:28.5.1-1-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) ...
Selecting previously unselected package slirp4netns.
Preparing to unpack .../7-slirp4netns_1.2.1-1build2_amd64.deb ...
Unpacking slirp4netns (1.2.1-1build2) ...
Setting up 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 pigz (2.8-1) ...
Setting up docker-ce-rootless-extras (5:28.5.1-1-ubuntu.24.04-noble) ...
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) ...
1RV24MC067_meghanagoud@Hrithik: ~$ 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 20:36:16 IST; 38s ago
     TriggeredBy: ● docker.socket
                  Docs: https://docs.docker.com
   Main PID: 17626 (dockerd)
      Tasks: 19
     Memory: 22.7M (peak: 25.5M)
        CPU: 492ms
      CGroup: /system.slice/docker.service
              └─17626 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Oct 15 20:36:16 Hrithik dockerd[17626]: time="2025-10-15T20:36:16.218881793+05:30" level=info msg="detected 127.0.0.53 nameserver, assuming systemd-resolved, so using resolv.conf: /run
Oct 15 20:36:16 Hrithik dockerd[17626]: time="2025-10-15T20:36:16.268485616+05:30" level=info msg="Creating a containerd client" address=/run/containerd/containerd.sock timeout=1m0s
Oct 15 20:36:16 Hrithik dockerd[17626]: time="2025-10-15T20:36:16.305575433+05:30" level=info msg="Loading containers: start."
Oct 15 20:36:16 Hrithik dockerd[17626]: time="2025-10-15T20:36:16.623608920+05:30" level=info msg="Loading containers: done."
Oct 15 20:36:16 Hrithik dockerd[17626]: time="2025-10-15T20:36:16.638512077+05:30" level=info msg="Docker daemon" commit=f8215cc containerd-snapshotter=false storage-driver=overlay2
Oct 15 20:36:16 Hrithik dockerd[17626]: time="2025-10-15T20:36:16.638690779+05:30" level=info msg="Initializing buildkit"
Oct 15 20:36:16 Hrithik dockerd[17626]: time="2025-10-15T20:36:16.685120706+05:30" level=info msg="Completed buildkit initialization"
Oct 15 20:36:16 Hrithik dockerd[17626]: time="2025-10-15T20:36:16.693079482+05:30" level=info msg="Daemon has completed initialization"
Oct 15 20:36:16 Hrithik dockerd[17626]: time="2025-10-15T20:36:16.693161482+05:30" level=info msg="API listen on /run/docker.sock"
Oct 15 20:36:16 Hrithik systemd[1]: Started docker.service - Docker Application Container Engine.

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

5) also go to the post installation steps module in the website and follow the given steps

6) finally add the docker into services (systemctl services)

7) start the docker service

8) check if the service is running(status):

Sudo systemctl status docker

```
Oct 15 2045
1RV24MC067_meghanagoud@Hrithik: ~
latest: Pulling from library/hello-world
17eec7bbc9d7: Pull complete
Digest: sha256:6dc565a0630927052111f823c303948cf83670a3903ffa3849f1488ab517f891
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/

1RV24MC067_meghanagoud@Hrithik:~$ docker run hello-world

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.

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

1RV24MC067_meghanagoud@Hrithik:~$
```

9) this finishes the installation of docker