

Documentation:

1. Change the system user->

step1: `sudo apt update`

step2: add new user name temp

`sudo adduser temp`

provide the sudo permission to temp user

`sudo usermod -aG sudo user temp`

step3: log in to temp user

step4: `ctrl+alt+T`

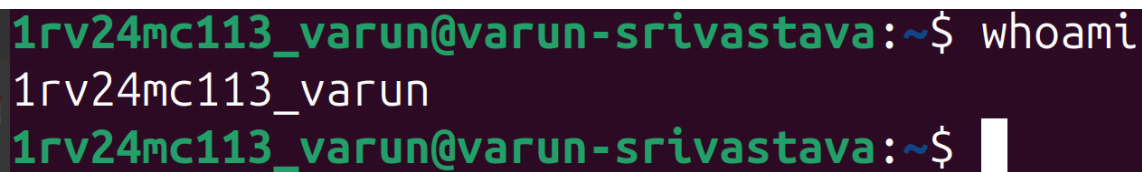
`sudo usermod -l 1rv24mc113_varun varun-srivastava`

// change the user name from temp (some process 2257 was running and not allowing to change the system name from the main user).

step5: After changing the username from the temp logout and login to main user

step6: check the username using the command

`whoami`



A terminal window with a dark purple background. The prompt is `1rv24mc113_varun@varun-srivastava:~$`. The command `whoami` has been entered, and the output `1rv24mc113_varun` is displayed on the next line. The prompt is now `1rv24mc113_varun@varun-srivastava:~$` with a white cursor.

2. Docker installation

Installation using apt repository

step1: Add docker official GPG key:

`sudo apt-get update`

`sudo apt-get install ca-certificates curl`

```
1rv24mc113_varun@varun-srivastava:~$ whoami
1rv24mc113_varun
1rv24mc113_varun@varun-srivastava:~$ sudo apt-get update
Hit:1 https://packages.microsoft.com/repos/code stable InRelease
Hit:2 https://deb.nodesource.com/node_20.x nodistro InRelease
Get:3 https://packages.grafana.com/oss/deb stable InRelease [7,661 B]
Get:4 https://dl.google.com/linux/chrome/deb stable InRelease [1,825 B]
Hit:5 http://security.ubuntu.com/ubuntu noble-security InRelease
Err:3 https://packages.grafana.com/oss/deb stable InRelease
  The following signatures were invalid: EXPKEYSIG 963FA27710458545 Grafana Labs <engineering@grafana.com>
Get:6 https://dl.google.com/linux/chrome/deb stable/main amd64 Packages [1,208 B]
Hit:7 http://in.archive.ubuntu.com/ubuntu noble InRelease
Hit:8 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:9 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease
Fetched 3,033 B in 4s (797 B/s)
Reading package lists... Done
W: https://packages.grafana.com/oss/deb/dists/stable/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg),
  see the DEPRECATION section in apt-key(8) for details.
W: An error occurred during the signature verification. The repository is not updated and the previous index files will be used. GP
G error: https://packages.grafana.com/oss/deb stable InRelease: The following signatures were invalid: EXPKEYSIG 963FA27710458545 G
rafana Labs <engineering@grafana.com>
W: Failed to fetch https://packages.grafana.com/oss/deb/dists/stable/InRelease The following signatures were invalid: EXPKEYSIG 96
3FA27710458545 Grafana Labs <engineering@grafana.com>
W: Some index files failed to download. They have been ignored, or old ones used instead.
1rv24mc113_varun@varun-srivastava:~$ 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).
curl is already the newest version (8.5.0-2ubuntu10.6).
0 upgraded, 0 newly installed, 0 to remove and 199 not upgraded.
1rv24mc113_varun@varun-srivastava:~$
```

```
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
```

```
Wed Oct 15 15:15:38
1rv24mc113_varun@varun-srivastava:~$
0 upgraded, 0 newly installed, 0 to remove and 199 not upgraded.
1rv24mc113_varun@varun-srivastava:~$ sudo install -m 0755 -d /etc/apt/keyrings
1rv24mc113_varun@varun-srivastava:~$ sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
1rv24mc113_varun@varun-srivastava:~$ sudo chmod a+r /etc/apt/keyrings/docker.asc
1rv24mc113_varun@varun-srivastava:~$ 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:-$VERSION_CODENAME}"} stable" | \
sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
sudo apt-get update
Hit:1 https://dl.google.com/linux/chrome/deb stable InRelease
Get:2 https://download.docker.com/linux/ubuntu noble InRelease [48.5 kB]
Hit:3 https://packages.microsoft.com/repos/code stable InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:5 https://packages.grafana.com/oss/deb stable InRelease [7,661 B]
Get:6 https://download.docker.com/linux/ubuntu noble/stable amd64 Packages [33.0 kB]
Err:5 https://packages.grafana.com/oss/deb stable InRelease
The following signatures were invalid: EXPKEYSIG 963FA27710458545 Grafana Labs <engineering@grafana.com>
Hit:7 http://in.archive.ubuntu.com/ubuntu noble InRelease
Hit:8 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:9 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:10 https://deb.nodesource.com/node_20.x nodistro InRelease
Fetched 81.5 kB in 4s (22.3 kB/s)
Reading package lists... Done
W: https://packages.grafana.com/oss/deb/dists/stable/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg),
see the DEPRECATION section in apt-key(8) for details.
W: An error occurred during the signature verification. The repository is not updated and the previous index files will be used. GP
G error: https://packages.grafana.com/oss/deb stable InRelease: The following signatures were invalid: EXPKEYSIG 963FA27710458545 G
rafana Labs <engineering@grafana.com>
W: Failed to fetch https://packages.grafana.com/oss/deb/dists/stable/InRelease The following signatures were invalid: EXPKEYSIG 96
3FA27710458545 Grafana Labs <engineering@grafana.com>
W: Some index files failed to download. They have been ignored, or old ones used instead.
1rv24mc113_varun@varun-srivastava:~$
```

step2: Install docker latest version

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

Docker-compose-plugin

```
Wed Oct 15 15:17:22
1rv24mc113_varun@varun-srivastava:~$
1rv24mc113_varun@varun-srivastava:~$ 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 199 not upgraded.
Need to get 105 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 https://download.docker.com/linux/ubuntu noble/stable amd64 containerd.io amd64 1.7.28-1-ubuntu.24.04-noble [31.9 MB]
Get:2 http://in.archive.ubuntu.com/ubuntu noble/universe amd64 pigz amd64 2.8-1 [65.6 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu noble/main amd64 libslirp0 amd64 4.7.0-1ubuntu3 [63.8 kB]
Get:4 http://in.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 105 MB in 41s (2,566 kB/s)
Selecting previously unselected package containerd.io.
(Reading database ... 270165 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.
```

```
Wed Oct 15 15:17:35
1rv24mc113_varun@varun-srivastava:~
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) ...
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 (2.39-0ubuntu8.5) ...
```

step3: Check the docker status
sudo systemctl status docker

```
Wed Oct 15 15:21:26
1rv24mc113_varun@varun-srivastava:~
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 (2.39-0ubuntu8.5) ...
1rv24mc113_varun@varun-srivastava:~$ 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 15:17:02 IST; 2min 45s ago
     TriggeredBy: ● docker.socket
   Docs: https://docs.docker.com
   Main PID: 19019 (dockerd)
     Tasks: 14
    Memory: 22.8M (peak: 24.4M)
       CPU: 652ms
   CGroup: /system.slice/docker.service
           └─19019 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Oct 15 15:17:01 varun-srivastava dockerd[19019]: time="2025-10-15T15:17:01.499509502+05:30" level=info msg="detected 127.0.0.53 na
Oct 15 15:17:01 varun-srivastava dockerd[19019]: time="2025-10-15T15:17:01.558984060+05:30" level=info msg="Creating a containerd >
Oct 15 15:17:01 varun-srivastava dockerd[19019]: time="2025-10-15T15:17:01.599324036+05:30" level=info msg="Loading containers: st
Oct 15 15:17:02 varun-srivastava dockerd[19019]: time="2025-10-15T15:17:02.195092850+05:30" level=info msg="Loading containers: do
Oct 15 15:17:02 varun-srivastava dockerd[19019]: time="2025-10-15T15:17:02.219313373+05:30" level=info msg="Docker daemon" commit>
Oct 15 15:17:02 varun-srivastava dockerd[19019]: time="2025-10-15T15:17:02.219529640+05:30" level=info msg="Initializing buildkit"
Oct 15 15:17:02 varun-srivastava dockerd[19019]: time="2025-10-15T15:17:02.252862213+05:30" level=info msg="Completed buildkit ini
Oct 15 15:17:02 varun-srivastava dockerd[19019]: time="2025-10-15T15:17:02.262720836+05:30" level=info msg="Daemon has completed i
Oct 15 15:17:02 varun-srivastava dockerd[19019]: time="2025-10-15T15:17:02.262836604+05:30" level=info msg="API listen on /run/doc
Oct 15 15:17:02 varun-srivastava systemd[1]: Started docker.service - Docker Application Container Engine.
lines 1-22/22 (END)
1rv24mc113_varun@varun-srivastava:~$
```

(if docker is status is inactive run the command
sudo systemctl start docker)

