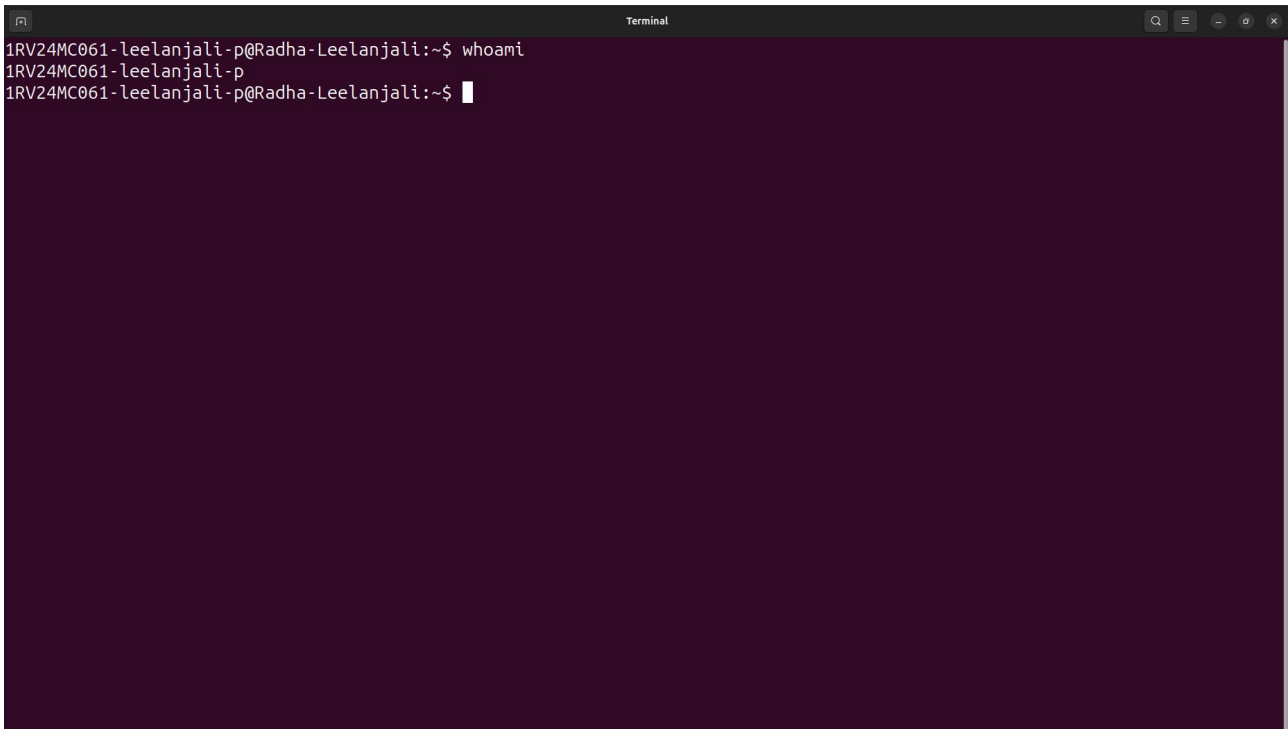


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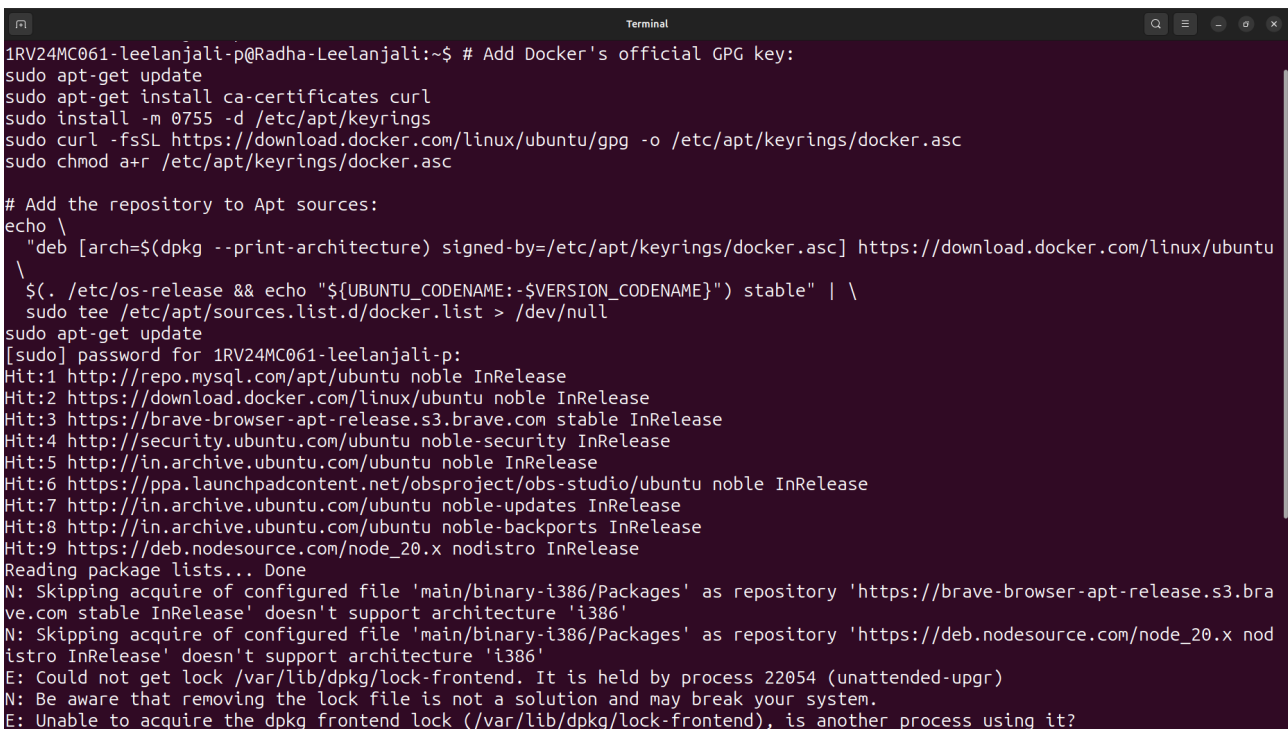
1. Displaying the User name:

A terminal window titled 'Terminal' with a dark background. The prompt is '1RV24MC061-leelanjali-p@Radha-Leelanjali:~\$'. The user enters 'whoami' and the output is '1RV24MC061-leelanjali-p'.

```
1RV24MC061-leelanjali-p@Radha-Leelanjali:~$ whoami
1RV24MC061-leelanjali-p
1RV24MC061-leelanjali-p@Radha-Leelanjali:~$
```

Fig 01: whoami command returns the username of the User

2. Command to set up the Docker apt repository. And then install and update Docker from the repository:

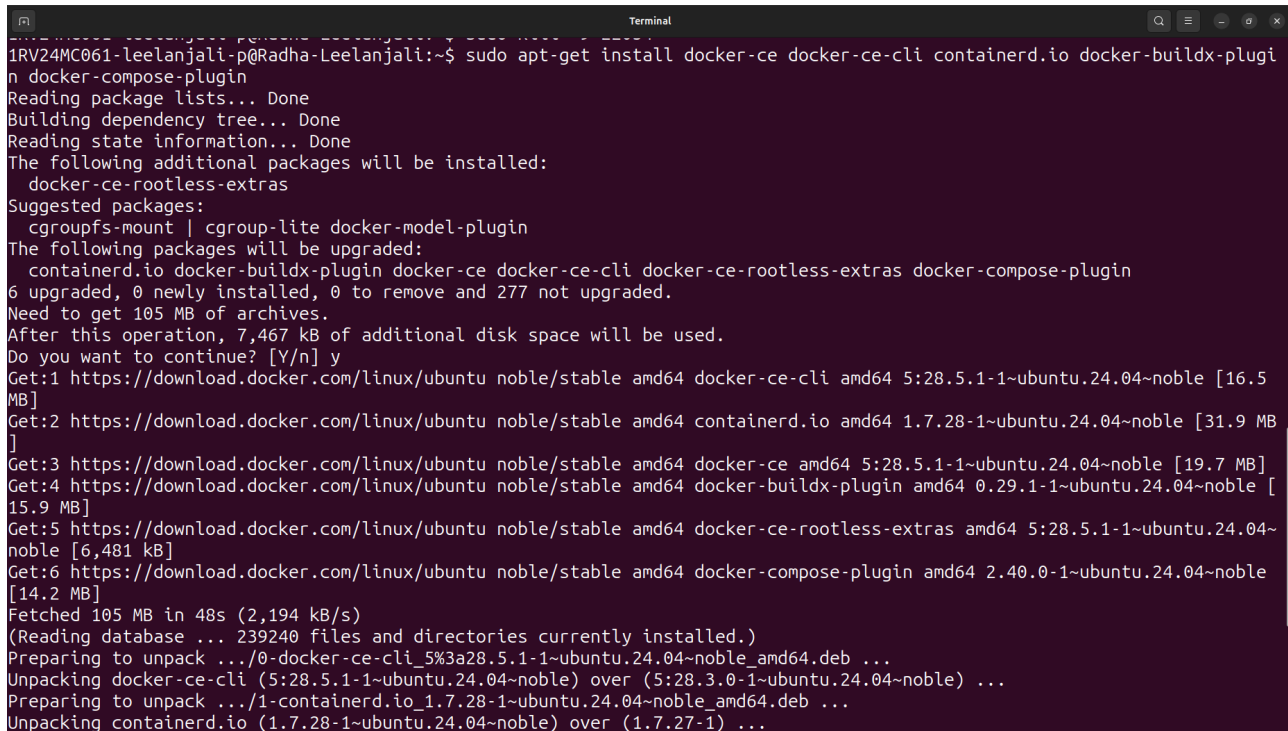
A terminal window titled 'Terminal' with a dark background. The user enters a series of commands to add Docker's official GPG key, add the repository to Apt sources, and update the package lists. The output shows the successful addition of the repository and the update of package lists.

```
1RV24MC061-leelanjali-p@Radha-Leelanjali:~$ # 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 1RV24MC061-leelanjali-p:
Hit:1 http://repo.mysql.com/apt/ubuntu noble InRelease
Hit:2 https://download.docker.com/linux/ubuntu noble InRelease
Hit:3 https://brave-browser-apt-release.s3.brave.com stable InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:5 http://in.archive.ubuntu.com/ubuntu noble InRelease
Hit:6 https://ppa.launchpadcontent.net/obsproject/obs-studio/ubuntu noble InRelease
Hit:7 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:8 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:9 https://deb.nodesource.com/node_20.x nodistro InRelease
Reading package lists... Done
N: Skipping acquire of configured file 'main/binary-i386/Packages' as repository 'https://brave-browser-apt-release.s3.brave.com stable InRelease' doesn't support architecture 'i386'
N: Skipping acquire of configured file 'main/binary-i386/Packages' as repository 'https://deb.nodesource.com/node_20.x nodistro InRelease' doesn't support architecture 'i386'
E: Could not get lock /var/lib/dpkg/lock-frontent. It is held by process 22054 (unattended-upgr)
N: Be aware that removing the lock file is not a solution and may break your system.
E: Unable to acquire the dpkg frontend lock (/var/lib/dpkg/lock-frontent), is another process using it?
```

Fig 02: Set up Docker's apt repository

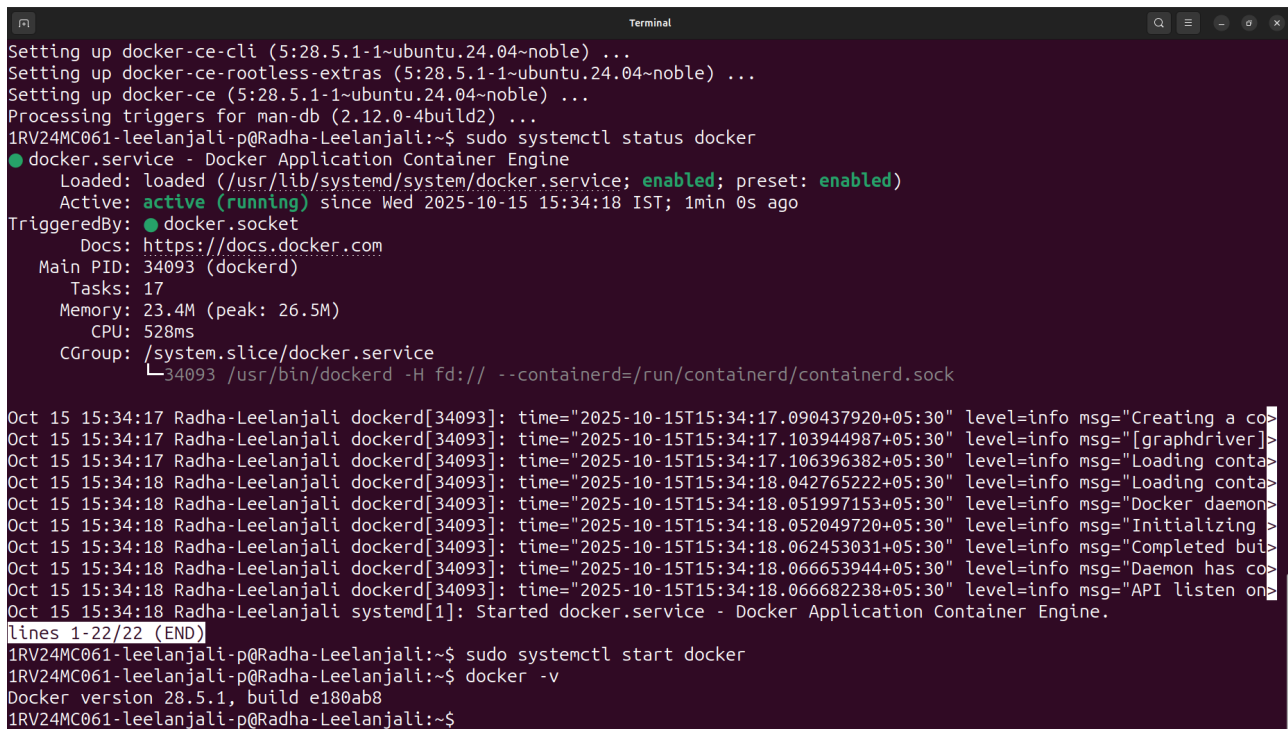
3. Command to install the latest versions of Docker packages:



```
1RV24MC061-leelanjali-p@Radha-Leelanjali:~$ sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin
n 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
Suggested packages:
  cgroupfs-mount | cgroup-lite docker-model-plugin
The following packages will be upgraded:
  containerd.io docker-buildx-plugin docker-ce docker-ce-cli docker-ce-rootless-extras docker-compose-plugin
6 upgraded, 0 newly installed, 0 to remove and 277 not upgraded.
Need to get 105 MB of archives.
After this operation, 7,467 kB 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 docker-ce-cli amd64 5:28.5.1-1~ubuntu.24.04~noble [16.5
MB]
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 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:4 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:5 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:6 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 48s (2,194 kB/s)
(Reading database ... 239240 files and directories currently installed.)
Preparing to unpack .../0-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) over (5:28.3.0-1~ubuntu.24.04~noble) ...
Preparing to unpack .../1-containerd.io_1.7.28-1~ubuntu.24.04~noble_amd64.deb ...
Unpacking containerd.io (1.7.28-1~ubuntu.24.04~noble) over (1.7.27-1) ...
```

Fig 03: Latest versions of Docker packages

4. Docker commands to start and check the status of Docker:



```
Setting up docker-ce-cli (5:28.5.1-1~ubuntu.24.04~noble) ...
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) ...
Processing triggers for man-db (2.12.0-4build2) ...
1RV24MC061-leelanjali-p@Radha-Leelanjali:~$ 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 15:34:18 IST; 1min 0s ago
TriggeredBy: ● docker.socket
           Docs: https://docs.docker.com
   Main PID: 34093 (dockerd)
     Tasks: 17
    Memory: 23.4M (peak: 26.5M)
       CPU: 528ms
    CGroup: /system.slice/docker.service
            └─34093 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Oct 15 15:34:17 Radha-Leelanjali dockerd[34093]: time="2025-10-15T15:34:17.090437920+05:30" level=info msg="Creating a co
Oct 15 15:34:17 Radha-Leelanjali dockerd[34093]: time="2025-10-15T15:34:17.103944987+05:30" level=info msg="[graphdriver]>
Oct 15 15:34:17 Radha-Leelanjali dockerd[34093]: time="2025-10-15T15:34:17.106396382+05:30" level=info msg="Loading conta
Oct 15 15:34:18 Radha-Leelanjali dockerd[34093]: time="2025-10-15T15:34:18.042765222+05:30" level=info msg="Loading conta
Oct 15 15:34:18 Radha-Leelanjali dockerd[34093]: time="2025-10-15T15:34:18.051997153+05:30" level=info msg="Docker daemon>
Oct 15 15:34:18 Radha-Leelanjali dockerd[34093]: time="2025-10-15T15:34:18.052049720+05:30" level=info msg="Initializing >
Oct 15 15:34:18 Radha-Leelanjali dockerd[34093]: time="2025-10-15T15:34:18.062453031+05:30" level=info msg="Completed bui
Oct 15 15:34:18 Radha-Leelanjali dockerd[34093]: time="2025-10-15T15:34:18.066653944+05:30" level=info msg="Daemon has co
Oct 15 15:34:18 Radha-Leelanjali dockerd[34093]: time="2025-10-15T15:34:18.066682238+05:30" level=info msg="API listen on
Oct 15 15:34:18 Radha-Leelanjali systemd[1]: Started docker.service - Docker Application Container Engine.
lines 1-22/22 (END)
1RV24MC061-leelanjali-p@Radha-Leelanjali:~$ sudo systemctl start docker
1RV24MC061-leelanjali-p@Radha-Leelanjali:~$ docker -v
Docker version 28.5.1, build e180ab8
1RV24MC061-leelanjali-p@Radha-Leelanjali:~$
```

Fig 04: Image showing active status of Docker