Name: Maira Malik

Reg.no: 2023-BSE-040

**Subject: Cloud Computing** 

# **LAB#5**

#### Task 1:

```
maira040@ubuntu64:~$ java
Command 'java' not found, but can be installed with:
sudo apt install openjdk-17-jre-headless # version 17.0.14+7-1~24.04, or
sudo apt install openjdk-21-jre-headless # version 21.0.6+7-1~24.04.1
sudo apt install default-jre # version 2:1.17-75
sudo apt install openjdk-11-jre-headless # version 11.0.26+4-1ubuntu1~24.04
sudo apt install openjdk-8-jre-headless # version 80.42-b06~us1-0ubuntu1~24.04
sudo apt install openjdk-19-jre-headless # version 19.0.2+7-4
sudo apt install openjdk-20-jre-headless # version 20.0.2+9-1
sudo apt install openjdk-20-jre-headless # version 20.0.2+9-1
sudo apt install openjdk-20-jre-headless # version 20.0.2+9-1
```

```
### Reading package lists... Done

Reading package lists... Done

Reading state information... Done

Reading state information... Done

The following additional packages will be installed:

Ibasound2-data libasound2t64 libatk-bridge2.0-0t64 libatk-wrapper-java libatk-wrapper-java libatk-wrapper-java libatk-pide2.0-0t64 libatk-wrapper-java libatk-wrapper-java libatk-pide2.0-0t64 libatk-wrapper-java libatk-wrapper-java libayahi-common-data libayahi-common libath-bridge2.0-0t64 libatk-wrapper-java libayahi-common libath-bridge2.0-0t64 libatk-wrapper-java libayahi-common libath-bridge2.0-0t66 libicms2-2 libilum91 libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-libusyahi-lib
```

```
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:3 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:4 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:5 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:6 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 d
Get:7 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:8 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:9 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:10 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:11 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:12 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:17 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
Get:18 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
et:19 http://archive.ubuntu.com/ubuntu noble-updates/main amd64
```

```
maira040@ubuntu64:~$ java --version
openjdk 21.0.8 2025-07-15
OpenJDK Runtime Environment (build 21.0.8+9-Ubuntu-0ubuntu124.04.1)
OpenJDK 64-Bit Server VM (build 21.0.8+9-Ubuntu-0ubuntu124.04.1, mixed mode, sharing)
maira040@ubuntu64:~$
```

Do you want to continue? [Y/n] y (Reading database ... 101610 files and directories currently installed.) Removing default-ire (2:1.21-75+exp1) ...

# Task 2:

maira040@ubuntu64:~\$ sudo apt-get update
Hit:1 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
maira040@ubuntu64:~\$

maira040@ubuntu64:~\$ java --version
openjdk 21.0.8 2025-07-15
OpenJDK Runtime Environment (build 21.0.8+9-Ubuntu-0ubuntu124.04.1)
OpenJDK 64-Bit Server VM (build 21.0.8+9-Ubuntu-0ubuntu124.04.1, mixed mode, sharing)
maira040@ubuntu64:~\$

```
maira0400ubuntu64:"$ sudo apt-get remove default-jre -y
Reading package lists... Done
Ruilding dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
    adwalta-icon-theme alsa-topology-conf alsa-ucm-conf at-spi2-common at-spi2-core ca-certif
    default-jre-headless fontconfig fonts-dejavu-extra gsettings-desktop-schemes gik-update-i
    libasound2-data libasound2t64 libatk-bridge2.0-0t64 libatk-urapper-java libaty-1-common-data libavahi-common libstra-foubjezeb libides-pixbuf2.0-common libitf7 libatjf1 libati libgt8-pixbuf2.0-e-0 libgt8-pixbuf2.0-e-0 libides-pixbuf2.0-e-0 libides-pixbuf2.0-e
```

#### Task 3:

```
maira@40@ubuntu64:~$ sudo apt upgrade
Reading package lists.. Done
Bullding dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages were automatically installed and are no longe
adwaita-icon-theme alsa-topology-conf alsa-ucm-conf at-spi2-commor
default-jre-headless fontconfig fonts-dejavu-extra gsettings-deskt
libasound2-data libasound2t64 libatk-bridge2.0-0164 libatk-wrapper
libavahi-common-data libavahi-common3 libcairo-gobject2 libcairo2
libgdk-pixbuf-2.0-0 libgdk-pixbuf2.0-bin libgdk-pixbuf2.0-common li
libgtk-3-bin libgtk-3-common libharfbuzz0b libice6 liblcms2-2 libl
libptwan-1-0 librsvg2-2 librsvg2-common libsm6 libthai-data libth
libx11-xcb1 libxaw7 libxcb-dr13-0 libxcb-glx0 libice6 roresent0 libx
libxcmposite1 libxcursor1 libxdamage1 libxfixes3 libxf1 libxi6 libxv1 libxx166dga1 libxx66vm1 mesa-libgallium mesa-vulkan-driver
x11-utils
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
linux-headers-6.8.0-86 linux-headers-6.8.0-86-generic
The following packages will be upgraded:
bind9-dnsutils bind9-host bind9-libs cloud-init coreutils distro-i
libc-devtools libc6 libc6-dev libfuppd2 libnss-systemd libpam-modu
libpython3.12-stdlib libpython3.12t64 libsalite3-0 libsslat64 libs
linux-generic linux-headers-generic linux-image-generic linux-libd
opensh-stfp-server openssl powernemmt-base python3-software-propor
systemd-dev systemd-hwe-hwdb systemd-resolved systemd-sysv systemc
xd
67 upgraded, 7 neuly installed, 0 to remove and 0 not upgraded.
37 standard LTS security updates
Need to get 829 MB of archives.
After this operation, 308 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

```
http://archive.ubuntu.com/ubuntu noble-updates/mai
Get:34 http://archive.ubuntu.com/ubuntu noble-updates/mai
 Get:35 http://archive.ubuntu.com/ubuntu noble-updates/mai
           http://archive.ubuntu.com/ubuntu noble-updates/maj
Get:37 http://archive.ubuntu.com/ubuntu noble-updates/mai
Get:38 http://archive.ubuntu.com/ubuntu noble-updates/mai
Get:39 http://archive.ubuntu.com/ubuntu noble-updates/mai
 Get:40 http://archive.ubuntu.com/ubuntu noble-updates/mai
 et:41 http://archive.ubuntu.com/ubuntu noble-updates/mai
Get:42 http://archive.ubuntu.com/ubuntu noble-updates/mai
Get:43 http://archive.ubuntu.com/ubuntu noble-updates/mai
Get:44 http://archive.ubuntu.com/ubuntu noble-updates/mai
 et:45 http://archive.ubuntu.com/ubuntu noble-updates/maj
 et:46 http://archive.ubuntu.com/ubuntu noble-updates/maj
Get:47 http://archive.ubuntu.com/ubuntu noble-updates/mai
Get:48 http://archive.ubuntu.com/ubuntu noble-updates/mai
Get:49 http://archive.ubuntu.com/ubuntu noble-updates/mai
Get:50 http://archive.ubuntu.com/ubuntu noble-updates/mai
Get:51 http://archive.ubuntu.com/ubuntu noble-updates/mai
Get:51 http://archive.ubuntu.com/ubuntu noble-updates/mai
Get:52 http://archive.ubuntu.com/ubuntu noble-updates/mai
Get:54 http://archive.ubuntu.com/ubuntu noble-updates/mai
Get:55 http://archive.ubuntu.com/ubuntu noble-updates/mai
           http://archive.ubuntu.com/ubuntu noble-updates/maj
Get:57 http://archive.ubuntu.com/ubuntu noble-updates/mai
Get:58 http://archive.ubuntu.com/ubuntu noble-updates/mai
25% [58 linux-firmware 36.9 MB/538 MB 7%]
```

```
Preparing to unpack ... /24 powerment base 1.37ubuntu0.1.all.deb ...
Imposting to unpack ... /24 powerment base 1.37ubuntu0.1.all.deb ...
Imposting powerment base (1.7buntu0.1) aver (1.37)
Preparing to unpack ... /25-tendung 4.93.4 subuntu4.24.04.1 amd64.deb ...
Unpacking todougo 4.9.94.3-dubuntu4.24.04.1) over (0.9.94.4 subuntu4) ...
Preparing to unpack ... /26-firmware-sof-signed.2023.12.1-lubuntu1.10.all.deb ...
Unpacking inframer-sof-signed (2023.12.1-lubuntu1.10) over (10.9.30-ebuntu1.174.04.1)
Unpacking inframer-sof-signed (2023.13.1-lubuntu1.174.04.1) over (1.9.30-ebuntu1.174.04.1)
Unpacking inframer-sof-signed (2023.13.1-lubuntu1.174.04.1) over (1.9.30-ebuntu1.174.04.1)
Unpacking indugid (1.9.31-ebuntu1.174.04.1) over (1.9.30-ebuntu1.174.04.1)
Unpacking indugid (1.9.31-ebuntu1.174.04.1) over (1.9.30-ebuntu1.174.04.1)
Unpacking induscabe-common (24.02-ebuntu1.5.6) amd64.deb ...
Unpacking induscabe-common (24.02-ebuntu1.3)
Unpacking indusca
```

maira040@ubuntu64:~\$ cat ~/apt\_update\_vs\_upgrade.md
apt update and apat apgrade serve different purposes in Ubuntu.
apt update refreshes your system's package list from the repositries, letting your computer know about the
latest available versions of software. apt upgrade actually installs those newer versions for the packages you already have.
maira040@ubuntu64:~\$ \_

#### **Task 4:**

naira040@ubuntu64:~\$ sudo snap install --classic code
[sudo] password for maira040:
Download snap "snapd" (25577) from channel "stable"

maira040@ubuntu64:~\$ snap list code

Name Version Rev Tracking Publisher Notes
code 7d842fb8 211 latest/stable vscode♦ classic

maira040@ubuntu64:~\$ code --version
1.105.1
7d842fb85a0275a4a8e4d7e040d2625abbf7f084
x64

4. maira040@ubuntu64:~\$ ls -l /snap/bin | grep code lrwxrwxrwx 1 root root 13 Oct 24 05:20 code -> /usr/bin/snap lrwxrwxrwx 1 root root 13 Oct 24 05:20 code.url-handler -> /usr/bin/snap

#### **Task 5:**

C:\Users\BOSS>ssh maira040@192.168.238.129
maira040@192.168.238.129's password:
Melcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.8.0-71-generic x86\_64)

\* Documentation: https://help.ubuntu.com
\* Management: https://landscape.canonical.com
\* Support: https://lubuntu.com/pro

System information as of Fri Oct 24 05:24:53 AM UTC 2025

System load: 0.0 Processes: 220
Usage of /: 60.8% of 9.7568 Users logged in: 1
Memory usage: 14% IPv4 address for ens33: 192.168.238.129

\* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s just raised the bar for easy, resilient and secure K8s cluster deployment. https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.

Ø updates can be applied immediately.
Enable ESM Apps to receive additional future security updates. See https://ubuntu.com/esm or run: sudo pro status

\*\*\* System restart required \*\*\*
Last login: Thu Oct 23 13:08:33 2025 from 192.168.238.1

```
| Sudo| passend for mairal#82:
| Siti: http://anchive.ubuntu.com/ubuntu noble Infelease
| Set: http://anchive.ubuntu.com/ubuntu noble-security Infelease [126 k8]
| Set: http://anchive.ubuntu.com/ubuntu noble-security Infelease [126 k8]
| Set: http://anchive.ubuntu.com/ubuntu noble-updates Infelease [126 k8]
| Set: http://anchive.ubuntu.com/ubuntu noble-updates Infelease [126 k8]
| Set: http://anchive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [15.4 k8]
| Seading package lists... Done
| Seading package lists... Done
| Seading state information... Done
| Seading package lists... Done
| Seading state information... Done
|
```

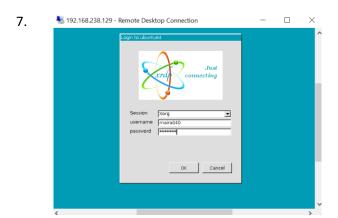
```
Reading package lists... Done
Building dependency tree... Done
Building dependency tree... Done
Reading state information... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
ca-certificates-jaw default-je-headless fonts-dejavu-extra jawa-common libatk-wrapper-jawa in libata
```

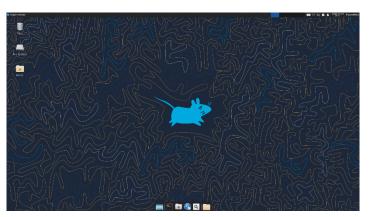
3.

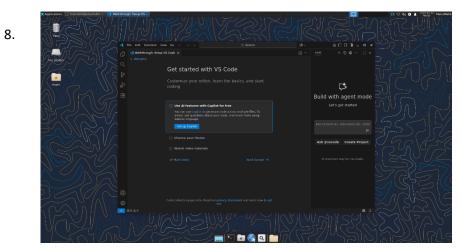
```
Reading package lists... Donerdy
Bullding dependency tree... Done
Reading state information... Done
Info following packages were automatically installed and are no longer required:
ca-certificates-java default-ire-headless fonts-dejavu-extra java-common libatk-wrapper-java allibatk-wrapper-java-in libgit per packages will be installed:
Ilbfuse2t64 libpipsekre-0.3-modules-xrdp pipsekre-module-xrdp xorgxrdp
Suggested packages:
pipsekire-bin guacanole
Info following INK) packages will be installed:
gripped to the following INK) packages will be installed:
gripped to the following INK) packages will be installed:
gripped to the following INK) packages will be installed:
gripped to the following INK) packages will be installed:
gripped to the following INK) packages will be installed:
gripped to the following INK) packages will be installed:
gripped to the following INK) packages will be installed:
gripped to the following INK) packages will be installed:
gripped to the following INK) packages will be received and 0 not upgraded.
Reading Information into the following INK package will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble/universe amd64 libpicac2t64 amd64 2.9.9-8.libuild[89.9]
Get:2 http://archive.ubuntu.com/ubuntu noble/universe amd64 libpicac2t64 amd64 0.2.9-8.libuild[89.9]
Get:3 http://archive.ubuntu.com/ubuntu noble/universe amd64 libpicace-0.3-module-xrdp all 0.2-2 [3,808 8]
Get:3 http://archive.ubuntu.com/ubuntu noble/universe amd64 libpicace-0.3-module-xrdp all 0.2-2 [3,808 8]
Get:3 http://archive.ubuntu.com/ubuntu noble/universe amd64 libpicare-0.3-module-xrdp amd64 0.2-9.9-8.libuild[89.9]
Fetched 715 kB in 1s (973 kB/s)
Selecting previously unselected package libfuse2t64:amd64.
Reading database ... 176057 files and directori
```

maira040@ubuntu64:~\$ sudo systemctl enable --now xrdp Synchronizing state of xrdp.service with SysV service script with /usr/lib/systemd/systemd-sysv-install. Executing: /usr/lib/systemd/systemd-sysv-install enable xrdp maira040@ubuntu64:~\$

# 6. maira040@ubuntu64:~\$ echo xfce4-session > ~/.xsession







#### Task 6:

```
Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

lightdm is already the newest version (1.30.0-0ubuntu14).

lightdm set to manually installed.

The following packages were automatically installed and are no longer required:

ca-certificates-java default-jn-headless fonts-dejavu-extra java-common libatk-wrapper-java

libatk-wrapper-java-jni libgif7 openjdk-21-jre openjdk-21-jre-headless

Use 'sudo apt autoremove' to remove them.

The following additional packages will be installed:

gnome-accessibility-themes gnome-themes-extra gnome-themes-extra-data gtk2-engines-pixbuf

The following NEW packages will be installed:

gnome-accessibility-themes gnome-themes-extra gnome-themes-extra-data gtk2-engines-pixbuf lightdm-gtk-gree

0 upgraded, 5 newly installed, 0 to remove and 0 not upgraded.

Need to get 2,495 kB of archives.

After this operation, 7,003 kB of additional disk space will be used.

Get:1 http://archive.ubuntu.com/ubuntu noble/main amd64 gnome-accessibility-themes all 3.28-2ubuntu5 [2,296

Get:2 http://archive.ubuntu.com/ubuntu noble/main amd64 gnome-themes-extra-data all 3.28-2ubuntu5 [69.4 kB]

Get:3 http://archive.ubuntu.com/ubuntu noble/main amd64 gnome-themes-extra amd64 2.24.33-4ubuntu1.

kB]

Get:4 http://archive.ubuntu.com/ubuntu noble/main amd64 gnome-themes-extra amd64 2.24.33-4ubuntu1.

kB]

Get:5 http://archive.ubuntu.com/ubuntu noble/main amd64 gnome-themes-extra amd64 3.28-2ubuntu5 [59.4 kB]

Get:5 http://archive.ubuntu.com/ubuntu noble/main amd64 gnome-themes-extra amd64 2.8.9-0ubuntu3 [94.3 ifetched 2,495 kB in 25 (1,620 kB/s)
```

```
maira040@ubuntu64:~$ sudo mkdir -p /etc/lightdm/lightdm.conf.d
at:*]\ngreeter-session=lightdm-gtk-greeter\nuser-session=xfce\nautologin-user-timeout=0" | sudo tee /etc/lightdm/lightdm.conf.d/99-xfce.confecho -e "[Seat:*]\ngreeter-session=lightdm-gtk-greeter\nuser-session=xfce\nautologin-user-timeout=0" | sudo tee /etc/lightdm/lightdm.conf.d/99-xfce.confmaira040@ubuntu64:~$ sudo mkdir -p /etc/lightdm/lightdm.conf.d
maira040@ubuntu64:~$ echo -e "[Seat:*]\ngreeter-session=lightdm-gtk-greeter\nuser-session=xfce\nautologin-user-timeout=0" | sudo tee /etc/lightdm/lightdm.conf.d/99-xfce.conf
[Seat:*]
greeter-session=lightdm-gtk-greeter
user-session=xfce
autologin-user-timeout=0
maira040@ubuntu64:~$
```

```
maira040@ubuntu64:~$ sudo rm -f /var/lib/lightdm/.Xauthority
maira040@ubuntu64:~$ sudo rm -f ~/.Xauthority
aira040@ubuntu64:~$ sudo rm -rf ~/.cache/sessions
aira040@ubuntu64:~$ sudo chown -R $USER:$USER /home/$USER
```

# maira040@ubuntu64:~\$ sudo systemctl restart lightdm

maira040@ubuntu64:~\$ sudo systemctl enable lightdm graphical.targetsudo systemctl set-default graphical.targetSynchronizing state of lightdm.service with SysV servic • script with /usr/lib/systemd/systemd-sysv-install. xecuting: /usr/lib/systemd/systemd-sysv-install enable lightdm The unit files have no installation config (WantedBy=, RequiredBy=, UpheldBy=, Also=, or Alias= settings in the [Install] section, and DefaultInstance= for template units). This means they are not meant to be enabled or disabled using systemctl. Possible reasons for having these kinds of units are:

• A unit may be statically enabled by being symlinked from another unit's .wants/, .requires/, or .upholds/ directory.

• A unit's purpose may be to act as a helper for some other unit which has a requirement dependency on it.

• A unit may be started when needed via activation (socket, path, timer, D-Bus, udev, scripted systemctl call, ...).

• In case of template units, the unit is meant to be enabled with some instance name specified.

2.

aira040@ubuntu64:~\$ sudo reboot Broadcast message from root@ubuntu64 on pts/1 (Fri 2025-10-24 06:02:55 UTC): The system will reboot now!



tu64:~\$ sudo systemctl set-default multi-user.target ctl disable lightdm[sudo] password for maira040: Sorry, try again. [sudo] password for maira040: . Treated symlink /etc/systemd/system/default.target → /usr/lib/systemd/system/multi-user.target.

```
aira040@ubuntu64:~$ sudo reboot
Broadcast message from root@ubuntu64 on pts/1 (Fri 2025-10-24 06:08:38 UTC):
The system will reboot now!
   aira040@ubuntu64:~$ client_loop: send disconnect: Connection reset
                                   rassword:
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.8.0-86-generic x86_64)
                                    * Documentation: https://help.ubuntu.com

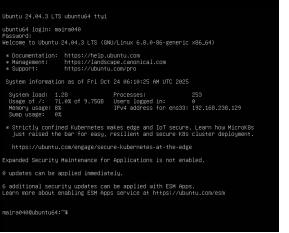
* Management: https://landscape.canonical.com

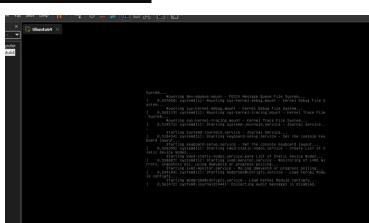
* Support: https://ubuntu.com/pro

    System load:
    1.28
    Processes:
    253

    Usage of /:
    71.0% of 9.7568
    Users logged in:
    0

    Wemory usage:
    0%
    IPv4 address for ens33:
    192.168.238.129
```





```
maira040@ubuntu64:~$ sudo systemctl start lightdm # start GUI now [sudo] password for maira040:
maira040@ubuntu64:~$ sudo systemctl stop lightdm # stop GUI now
maira040@ubuntu64:~$
maira040@ubuntu64:~$ Connection to 192.168.238.129 closed by remote host.
Connection to 192.168.238.129 closed.
```

Ubuntu 24.04.3 LTS ubuntu64 tty1

ubuntu64 login: maira040
Password:
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.8.0-86-generic x86\_64)

\* Documentation: https://help.ubuntu.com
\* Management: https://landscape.canonical.com
\* Support: https://landscape.canonical.com
\* Support: https://ubuntu.com/pro

System information as of Fri Oct 24 06:13:31 AM UTC 2025

System load: 0.06 Processes: 261
Usage of /: 71.1% of 9.75GB Users logged in: 1
Memory usage: 0% IPv4 address for ens33: 192.168.238.129

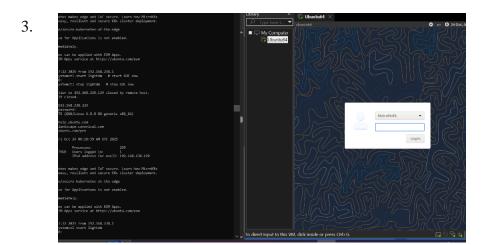
Swap usage: 0%

\* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s just raised the bar for easy, resilient and secure K8s cluster deployment.

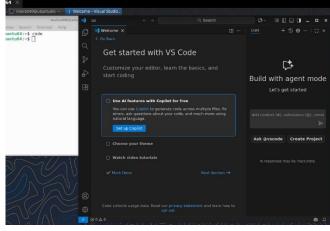
https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.
6 additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm







## **Task 7:**

```
maira040@ubuntu64:~$ sudo apt install google-chrome-stable -y
1.
        Reading package lists... Done
        Building dependency tree... Done
        Reading state information... Done
         : Unable to locate package google-chrome-stable
        naira040@ubuntu64:~$ ls -la /etc/apt
        total 48
       drwxr-xr-x 9 root root 4096 Oct 24 04:17 .
drwxr-xr-x 142 root root 12288 Oct 24 05:50 ..
2.
       drwxr-xr-x 2 root root 4096 Oct 24 05:04 apt.conf.d
drwxr-xr-x 2 root root 4096 Mar 31 2024 auth.conf.d
drwxr-xr-x 2 root root 4096 Mar 31 2024 keyrings
       drwxr-xr-x 2 root root 4096 Aug 5 17:14 preferences.d drwxr-xr-x 2 root root 4096 Aug 5 17:14 preferences.d.save -rw-r--r- 1 root root 70 Sep 26 16:29 sources.list
       drwxr-xr-x 2 root root 4096 Oct 24 04:27 sources.list.d
drwxr-xr-x 2 root root 4096 Aug 5 17:01 trusted.gpg.d
       maira040@ubuntu64:~$ cat /etc/apt/sources.list
3.
        # Ubuntu sources have moved to /etc/apt/sources.list.d/ubuntu.sources
           aira040@ubuntu64:~$
        maira040@ubuntu64:~$ ls -la /etc/apt/sources.list.d/
4.
        total 16
        drwxr-xr-x 2 root root 4096 Oct 24 06:27 .
        drwxr-xr-x 9 root root 4096 Oct 24 04:17 ...
        -rw-r--r-- 1 root root 533 Oct 24 06:27 ubuntu.sources
         -rw-r--r-- 1 root root 2552 Aug 5 17:02 ubuntu.sources.curtin.orig
          naira040@ubuntu64:~$ cat /etc/apt/sources.list.d/ubuntu.sources
         Types: deb
5.
         URIs: http://archive.ubuntu.com/ubuntu/
        Suites: noble noble-updates noble-backports
         Components: main restricted universe multiverse
        Signed-By: /usr/share/keyrings/ubuntu-archive-keyring.gpg
         Types: deb
         URIs: http://security.ubuntu.com/ubuntu/
         Suites: noble-security
         Components: main restricted universe multiverse
         Signed-By: /usr/share/keyrings/ubuntu-archive-keyring.gpg
```

```
maira040@ubuntu64:~$ cat /etc/apt/sources.list.d/ubuntu.sources.d/ubuntu.sources
Types: deb
URIs: http://archive.ubuntu.com/ubuntu/
Suites: noble noble-updates noble-backports
Components: main restricted universe multiverse
Signed-By: /usr/share/keyrings/ubuntu-archive-keyring.gpg

Types: deb
URIs: http://security.ubuntu.com/ubuntu/
Suites: noble-security
Components: main restricted universe multiverse
Signed-By: /usr/share/keyrings/ubuntu-archive-keyring.gpg
Types: deb
URIs: http://dl.google.com/linux/chrome/deb/
Suites: stable
Components: main
Architectures: amd64
Signed-By: /etc/apt/keyrings/google.gpg
maira040@ubuntu64:~$
```

```
maira040@ubuntu64:~$ curl -fsSL https://dl.google.com/linux/linux_signing_key.pub | sudo gpg --dearmor -o /e tc/apt/keyrings/google.gpg

File '/etc/apt/keyrings/google.gpg' exists. Overwrite? (y/N) y
```

```
8. [sudo] password for maira040:
Sorry, try again.
[sudo] password for maira040:
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://dl.google.com/linux/chrome/deb stable InRelease [1,825 B]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:4 http://dl.google.com/linux/chrome/deb stable/main amd64 Packages [1,214 B]
Get:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1,536 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [212 B]
Get:10 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [940 B]
Get:11 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7,164 B]
Get:12 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [112 B]
Get:13 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [112 B]
Get:14 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [110 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [110 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble-backports/mainerse amd64 Components [110 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-backports/mainerse amd64 Components [110 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-backports/mainerse amd64 Components [110 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-backports/mainerse amd64 Components [110 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble-backports/mainerse amd64 Components [110 kB]
Get:16 http://archive.ubuntu.com/ubuntu noble-backports/mainerse amd64 Components [110 kB]
Get:17 http://archive.ubuntu.com/ubuntu noble-backports/mainerse amd64 Components [110 kB]
Get:18 http://archive.ubuntu.com/ubuntu noble-backports/mainerse amd64 Components [110 kB]
Get:18 http://archive.ubuntu.com/ub
```

```
Reading package lists. Doe

Reading package lists. Doe

Reading package lists. Doe

Reading state information. Doe

Reading detailed. Do
```

```
GNU nano 7.2 /etc/apt/sources.list.d/ubuntu.
Types: deb
*URIs: http://archive.ubuntu.com/ubuntu/
Suites: noble noble-updates noble-backports
Components: main restricted universe multiverse
Signed-By: /usr/share/keyrings/ubuntu-archive-keyring.gpg

Types: deb
URIs: http://security.ubuntu.com/ubuntu/
Suites: noble-security
Components: main restricted universe multiverse
Signed-By: /usr/share/keyrings/ubuntu-archive-keyring.gpg
```

# maira040@ubuntu64:~\$ sudo rm -f /etc/apt/keyrings/google.gpg

```
maira040@ubuntu64:~$ sudo mkdir -p /etc/apt/keyrings

maira040@ubuntu64:~$ wget -q0- https://dl.google.com/linux/linux_signing_key.pub | sudo gpg --dearmor -o /etc/apt/keyrings/google-chrome.gpg

File '/etc/apt/keyrings/google-chrome.gpg' exists. Overwrite? (y/N) y
```

wirmANDD.burni64:-\$ echo "deb [arch=am064 signed-by=/etc/apt/keyrings/google-chrome.gpg] https://dl.google.com/linux/chrome/deb/ stable main" | sudo tee /etc/apt/sources.list.d/google-chrome.list deb [arch=am064 signed-by=/etc/apt/keyrings/google-chrome.gpg] https://dl.google.com/linux/chrome/deb/ stable main

```
maira040@ubuntu64:~$ ls -la /etc/apt/sources.list.d/

total 20
drwxr-xr-x 2 root root 4096 Oct 24 11:05 .
drwxr-xr-x 9 root root 4096 Oct 24 04:17 ..
-rw-r--r-- 1 root root 107 Oct 24 11:10 google-chrome.list
-rw-r--r-- 1 root root 384 Oct 24 11:04 ubuntu.sources
-rw-r--r-- 1 root root 2552 Aug 5 17:02 ubuntu.sources.curtin.orig
```

maira@40@ubuntu64:~\$ sudo mkdir -p /etc/apt/keyrings
maira@40@ubuntu64:~\$ curl -fsSL https://dl.google.com/linux/linux\_signing\_key.pub | sudo gpg --dearmor -o
/etc/apt/keyrings/google.gpg
maira@40@ubuntu64:~\$

```
maira040@ubuntu64:-$ sudo apt update

Hit:1 http://de.com/linux/chrome/deb stable InRelease

6et:2 http://security.buntu.com/ubuntu noble-security InRelease [126 kB]

Hit:3 http://archive.ubuntu.com/ubuntu noble-lopadates InRelease

Hit:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease

Hit:5 http://security.ubuntu.com/ubuntu noble-backports InRelease

Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [1,260 kB]

Get:7 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.5 kB]

Get:9 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.5 kB]

Get:10 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [2,069 kB]

Get:11 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [21.2 B]

Get:12 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [21.2 B]

Get:13 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [22.2 B]

Get:13 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [22.8 B]

Get:15 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [904 kB]

Get:15 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]

Get:16 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]

Get:17 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]

Get:18 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]

Get:19 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]

Get:19 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]

Get:19 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]

Get:20 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]

Get:21 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]

Get:22 http://securi
```

#### Task 8:

```
mairae40eŭbuntu64: % sudo apt install audacity -y
Reading package lists... Done
Bullding dependency tree... Done
Bullding dependency tree... Done
Bullding dependency tree... Done
Reading state Informations and the state of the state Information of the Information of Informa
```

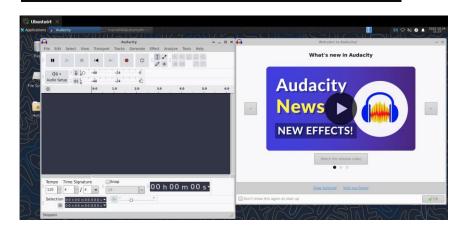
maira040@ubuntu64:~\$ sudo apt update
Hit:1 http://dl.google.com/linux/chrome/deb stable InRelease
Hit:2 http://sccurity.ubuntu.com/ubuntu noble-security InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:4 https://ppa.launchpadcontent.net/ubuntuhandbook1/audacity/ubuntu noble InRelease
Hit:5 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:6 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.

maira040@ubuntu64:~\$ apt list --installed | grep audacity

WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

audacity-data/noble,now 3.7.5-0build1~ubuntu24.04 all [installed,automatic]
audacity/noble,now 3.7.5-0build1~ubuntu24.04 amd64 [installed]
maira040@ubuntu64:~\$

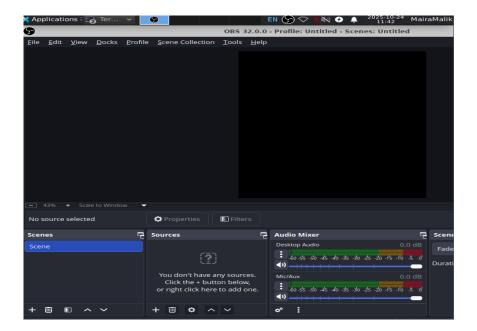
2.



```
mairad40@ubuntu64:-5 sudo apt update
Hit:1 http://dl.google.com/linux/chrome/deb stable InRelease
Hit:2 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:3 http://security.ubuntu.com/ubuntu noble InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:4 https://ppa.launchpadcontent.net/obsproject/obs-studio/ubuntu noble InRelease
Hit:5 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:6 https://ppa.launchpadcontent.net/ubuntuhandbookl/audacity/ubuntu noble InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
```

```
maira040@ubuntu64:~$ sudo apt install obs-studio -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer requ
  ca-certificates-java default-jre-headless fonts-dejavu-extra java-common
 libatk-wrapper-java libatk-wrapper-java-jni libgif7 openjdk-21-jre
openjdk-21-jre-headless
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
libaacs0 libass9 libavdevice60 libavfilter9 libavformat60 libb2-1 libbdp
  libblas3 libbluray2 libbs2b0 libchromaprint1 libcjson1 libdc1394-25
 libdecor-0-0 libdecor-0-plugin-1-gtk libfdk-aac2 libfftw3-double3 libfli
  libgfortran5 libgme0 liblapack3 libluajit-5.1-2 libluajit-5.1-common
 libmbedcrypto7t64 libmbedtls14t64 libmbedx509-1t64 libmysofal libnorm1t6
  libopenal-data libopenal1 libopenmpt0t64 libpgm-5.3-0t64 libplacebo338
  libpocketsphinx3 libpostproc57 libqrcodegencpp1 libqt6core6t64 libqt6dbu
  libqt6gui6t64 libqt6network6t64 libqt6opengl6t64 libqt6qml6 libqt6qmlmod
  libqt6quick6 libqt6svg6 libqt6waylandclient6 libqt6waylandcompositor6
  libqt6waylandeglclienthwintegration6 libqt6waylandeglcompositorhwintegra
```

```
maira040@ubuntu64:~$ obs --version
OBS Studio - 32.0.0
maira040@ubuntu64:~$
```



# Task 9:

```
Tym - Vi Improved

VIM - Vi Improved

Version 9.1.697

by Bram Moolenan et al.

Modified by teamvimetracker.debian.org

Vim is open source and freely distributable

Help poor children by information

type :help iccfemen for information

type :help iccfemen for or of information

type :help version9einter) for version info

Type :help version9einter) for version info

The pool of the pool
```

maira040@ubuntu64:~\$ mkdir -p ~/lab5 maira040@ubuntu64:~\$ cd ~/lab5 maira040@ubuntu64:~/lab5\$ pwd /home/maira040/lab5 maira040@ubuntu64:~/lab5\$

```
3. apiversion: v1
kind: Pod
metadata:
name: nginx-pod
spec:
containers:
- name: nginx
image: nginx:1.19
ports:
- containerPort: 80
restartPolicy: Always
```

```
maira040@ubuntu64:~/lab5$ ls -la

4. total 12
drwxrwxr-x 2 maira040 maira040 4096 Oct 24 11:53 .
drwxr-x--- 24 maira040 maira040 4096 Oct 24 11:53 .
-rw-rw-r-- 1 maira040 maira040 170 Oct 24 11:53 k8s-sample.yaml
maira040@ubuntu64:~/lab5$
```

#### **Task 10:**

```
maira040@ubuntu64:~/lab5$ cat k8s-sample.yaml
apiVersion: v1
kind: Pod
metadata:
    name: nginx-pod
annotations:
    lab: lesson11
spec:
    containers:
    - name: nginx
    image: nginx:1.19
    ports:
    - containerPort: 80
    restartPolicy: Always
maira040@ubuntu64:~/lab5$
```

```
maira040@ubuntu64:~/lab5$ cat k8s-sample.yaml
             apiVersion: v1
kind: Pod
3.
                                                           apiVersion: v1
kind: Pod
             metadata:
name: nginx-pod
annotations:
                                                           metadata:
                                                             name: nginx-pod
                                                           annotations:
                                                             lab: lesson11
                                                           spec:
               - name: nginx
image: nginx:1.19
                                                             containers:
                                                             - name: nginx
                  ports:
               - containerPort: 80
restartPolicy: Always
                                                                image: nginx:1.19
                                                                ports:
             temp: do-not-kee<u>p</u>
                                                                - containerPort: 80
                                                           restartPolicy: Always
maira040@ubuntu64:~/lab5$ _
```

#### **Task 11:**

```
"k8s-sample.yaml" 13L, 1998 written
maira040@ubuntu64:~/lab5$ cat k8s-sample.yaml
apiVersion: v1
kind: Pod
metadata:
    name: nginx-pod
annotations:
    lab: lesson11
spec:
    containers:
    - name: nginx
    image: nginx:1.19
    ports:
    - containerPort: 80
    restartPolicy: Always
maira040@ubuntu64:~/lab5$
```

```
3. Some lines; before #1 38 seconds ago
```

```
"k8s-sample.yaml" 13L, 199B written
maira040@ubuntu64:~/lab5$ cat k8s-sample.yaml
apiVersion: v1
kind: Pod
metadata:
    name: nginx-pod
annotations:
    lab: lesson11
spec:
    containers:
    - name: nginx
    image: nginx:1.19
    ports:
    - containerPort: 80
    restartPolicy: Always

__maira040@ubuntu64:~/lab5$
```

```
<u>a</u>piVersion: v1
                                            apiVersion: v1
4.
         kind: Pod
                                            ind: Pod
         metadata:
                                            netadata:
          name: nginx-pod
                                             name: nginx-pod
         annotations
                                             nnotations
          lab: lesson11
                                              lab: lesson11
                                             pec:
                                             containers:
           - name: nginx
image: nginx:1.19
                                              - name: nginx
                                                image: nginx:1.19
             ports:
                                                ports
               containerPort: 80
                                                - containerPort: 80
           restartPolicy: Always
                                              restartPolicy: Always
```

## **Task 12:**

```
apiversion: v1
kind: Pod
metadata:
    name: nginx-pod
annotations:
    lab: lesson11
spec:
    containers:
    - name: nginx
    image: nginx:1.19
    ports:
    - containerPort: 80
    restartPolicy: Always
```

```
~
~
search hit BOTTOM, continuing at TOP
<
```

```
3. kind: Pod
metadata:
    name: nginx-pod
annotations:
    lab: lesson11
spec:
    containers:
    - name: nginx
    image: nginx:1.19
    ports:
    - containerPort: 80
    restartPolicy: Always
```

```
4.

apiVersion: v1
kind: Pod
metadata:
    name: nginx-pod
    new: nginx1
    nginx2
annotations:
    lab: lesson11
spec:
    containers:
    - name: nginx
    image: nginx:1.19
    ports:
    - containerPort: 80
    restartPolicy: Always
```

```
5. Impriversion: v1
kind: Pod
metadata:
name: nginx-pod
new: nginx1
nginx2
annotations:
lab: lesson11
spec:
containers:
- name: nginx
image: nginx:1.19
ports:
- containerPort: 80
restartPolicy: Always
```

```
apiVersion: v1
kind: Pod
metadata:
    name: webapp-pod
    new: webapp1
    webapp2
annotations:
    lab: lesson11
spec:
    containers:
    - name: webapp
    image: webapp:1.19
    ports:
    - containerFort: 80
    restartPolicy: Always
```

## **Exam Evaluation Question:**

```
maira040@ubuntu64:~/lab5$ sudo apt update && sudo apt upgrade -y
[Sudo] password for maira040:
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:5 http://dl.google.com/linux/chrome/deb stable InRelease
Hit:6 https://ppa.launchpadcontent.net/obsproject/obs-studio/ubuntu noble InRelease
Hit:7 https://ppa.launchpadcontent.net/ubuntuhandbook1/audacity/ubuntu noble InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
Reading dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages were automatically installed and are no longer required:
ca-certificates-java default-jre-headless fonts-dejavu-extra java-common libatk-wrapper-java libatk-openjdk-21-jre-headless
Use 'sudo apt autoremove' to remove them.
Get more security updates through Ubuntu Pro with 'esm-apps' enabled:
libzvoi-common libcjson1 libavdevice60 libpostproc57 libavcodec60
libzvoi-t64 libavuti158 libswscale7 libswresample4 7zip libavformat60
libzvoi-t64 libavuti158 libswscale7 libswresample4 7zip libavformat60
libzvoi-common libcjson1 voi the sudo and onot upgraded.
maira040@ubuntu64: 'sudo ant Install ca-certificates curl gnupg apt-transport-https software-propertle
packing package lists... Done
Date Reading package lists... Done
```

```
maira0400ubuntu64: **s sudo apt install ca-certificates curl groups apt-transport-https software-propertie
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ca-certificates is already the newest version (20240203).
ca-certificates is already the newest version (8.5.0-2ubuntu10.6).
curl is already the newest version (8.5.0-2ubuntu10.6).
curl is already the newest version (8.5.0-2ubuntu17.3).
groups set to manually installed.
groups is already the newest version (2.4.4-2ubuntu17.3).
groups set to manually installed.
software-properties-common is already the newest version (0.99.49.3).
subject of the following packages were automatically installed and are no longer required:
ca-certificates-java default-jre-headless fonts-dejavu-extra java-common libatk-wrapper-java libatk-wood opension of the following package user automatically installed.

The following packages will be installed:
apt-transport-https
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 3,970 B of archives.
After this openation, 36.9 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 apt-transport-https all 2.8.3 [3,97]
Fetched 3,970 B in is (5,957 8/5)
Selecting previously unselected package apt-transport-https:
(Reading database ... 18633 files and directories currently installed.)
Preparing to unpack .../apt-transport-https:
(Reading database ... 18633 files and direct
```

maira040@ubuntu64:~\$ sudo install -m 0755 -d /etc/apt/keyrings maira040@ubuntu64:~\$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg\_

chmod: cannot access '/etc/apt/keyrıngs/docker/gpg': No such file o maira040@ubuntu64:~\$ sudo chmod a+r /etc/apt/keyrings/docker.gpg maira040@ubuntu64:~\$

```
maira040@ubuntu64:~$ sudo apt install docker-ce docker-ce-cli containerd.io docker-buildx-p
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
    ca-certificates-java default-jre-headless fonts-dejavu-extra java-common libatk-wrapper-j:
    openjdk-21-jre-headless
Use 'sudo apt autoremove' to remove them.
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 dock
0 upgraded, 9 newly installed, 0 to remove and 0 not upgraded.
Need to get 105 MB of archives.
After this operation, 437 MB of additional disk space will be used.
Get:1 https://download.docker.com/linux/ubuntu noble/stable amd64 containerd.io amd64 1.7.2
Get:2 http://archive.ubuntu.com/ubuntu noble/main amd64 libslirp0 amd64 4.7.0-lubuntu3 [63:
Get:3 http://archive.ubuntu.com/ubuntu noble/universe amd64 slirp4netns amd64 1.2.1-lbuild2
Get:5 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-cli amd64 5:28.5
Get:6 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce amd64 5:28.5
Get:6 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce amd64 5:28.5
Get:7 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce amd64 5:28.5
Get:9 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce amd64 5:28.5
Get:9 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-camd64 5:28.5
Get:9 https://download.docker.com/linux/u
```

maira040@ubuntu64:~\$ docker --version
Docker version 28.5.1, build e180ab8
maira040@ubuntu64:~\$ \_