

**LAPORAN PRAKTIKUM**  
**MODUL 2**  
**INSTALASI LINUX DEBIAN 2**



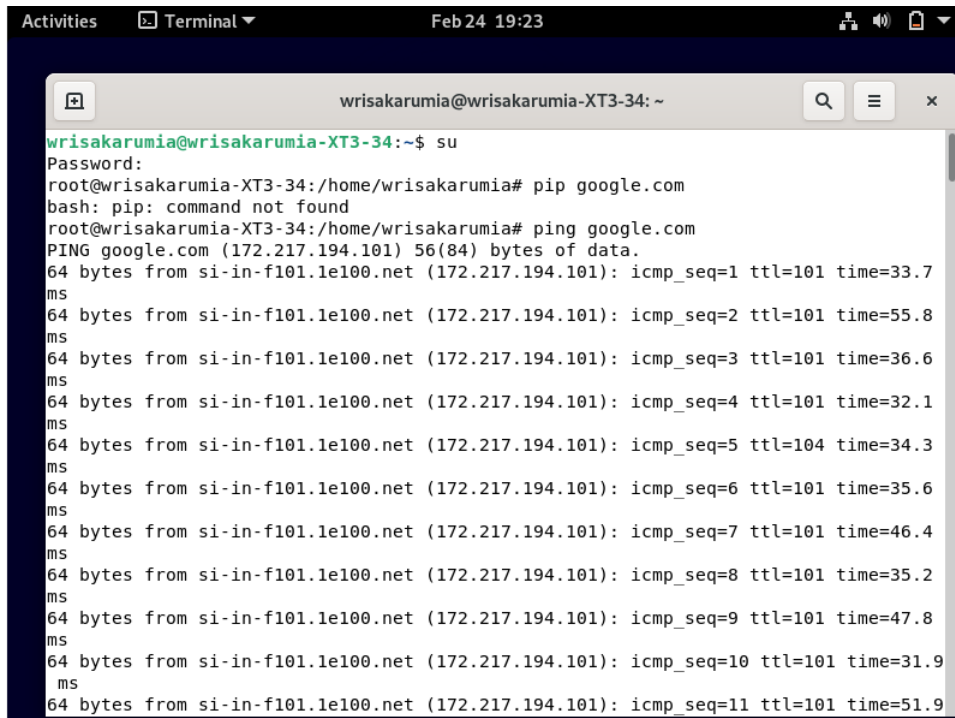
**Disusun oleh :**  
**Wrisa karumia ( 34 )**

**Program Keahlian**  
**Teknik Komputer dan Jaringan**

**SMK TELKOM MALANG**  
**FEBRUARY 2022**

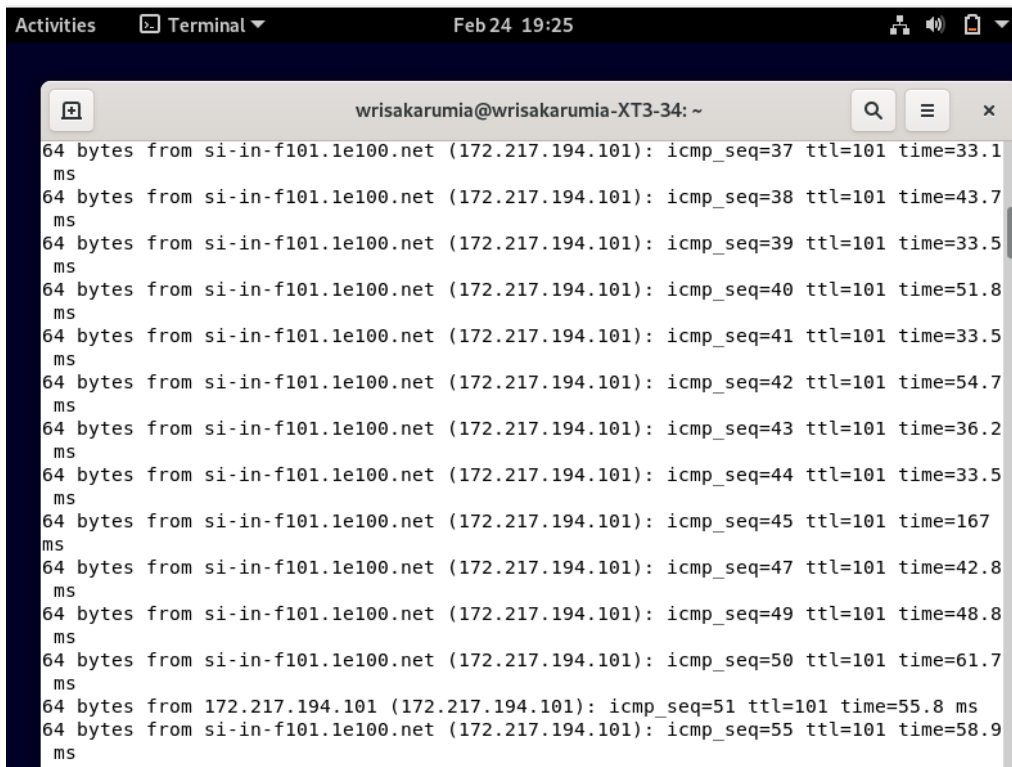
**Hasil Tugas :**

1. Ketik su, masukan password lalu ketik pip google.com



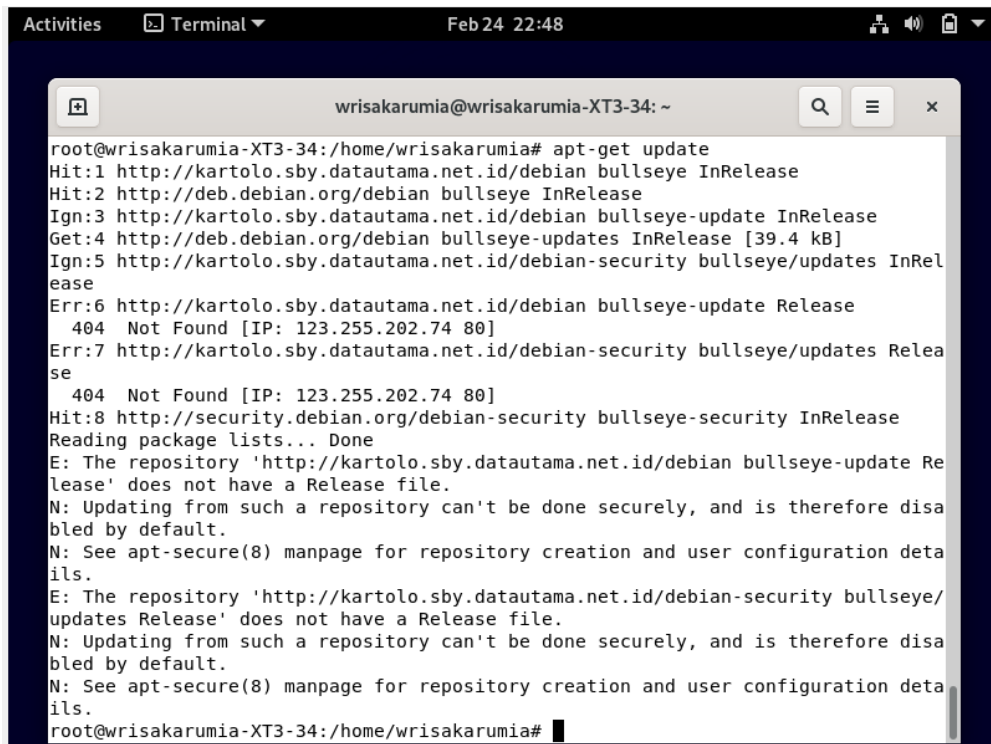
```
Activities Terminal Feb 24 19:23
wrisakarumia@wrisakarumia-XT3-34: ~
wrisakarumia@wrisakarumia-XT3-34:~$ su
Password:
root@wrisakarumia-XT3-34:/home/wrisakarumia# pip google.com
bash: pip: command not found
root@wrisakarumia-XT3-34:/home/wrisakarumia# ping google.com
PING google.com (172.217.194.101) 56(84) bytes of data.
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=1 ttl=101 time=33.7
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=2 ttl=101 time=55.8
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=3 ttl=101 time=36.6
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=4 ttl=101 time=32.1
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=5 ttl=104 time=34.3
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=6 ttl=101 time=35.6
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=7 ttl=101 time=46.4
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=8 ttl=101 time=35.2
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=9 ttl=101 time=47.8
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=10 ttl=101 time=31.9
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=11 ttl=101 time=51.9
ms
```

2. Lalu akan muncul begini



```
Activities Terminal Feb 24 19:25
wrisakarumia@wrisakarumia-XT3-34: ~
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=37 ttl=101 time=33.1
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=38 ttl=101 time=43.7
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=39 ttl=101 time=33.5
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=40 ttl=101 time=51.8
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=41 ttl=101 time=33.5
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=42 ttl=101 time=54.7
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=43 ttl=101 time=36.2
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=44 ttl=101 time=33.5
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=45 ttl=101 time=167
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=47 ttl=101 time=42.8
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=49 ttl=101 time=48.8
ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=50 ttl=101 time=61.7
ms
64 bytes from 172.217.194.101 (172.217.194.101): icmp_seq=51 ttl=101 time=55.8 ms
64 bytes from si-in-f101.1e100.net (172.217.194.101): icmp_seq=55 ttl=101 time=58.9
ms
```

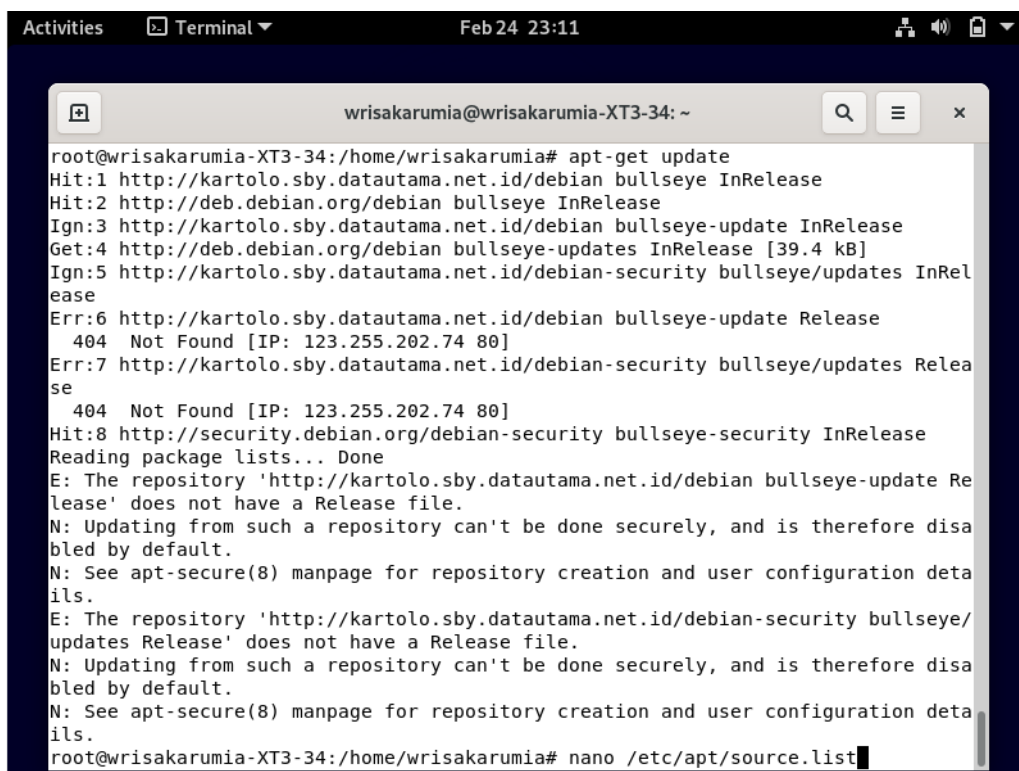
3. Pencet Ctrl + c, setelah itu ketik apt-get update. Lalu tekan enter



A terminal window titled 'wrisakarumia@wrisakarumia-XT3-34: ~' showing the output of the 'apt-get update' command. The output includes several 'Hit' messages for repositories like 'kartolo.sby.datautama.net.id/debian bullseye InRelease' and 'deb.debian.org/debian bullseye InRelease'. It also shows 'Err' messages for 'kartolo.sby.datautama.net.id/debian bullseye-update Release' and 'kartolo.sby.datautama.net.id/debian-security bullseye/updates Release', both resulting in '404 Not Found [IP: 123.255.202.74 80]'. The terminal ends with the prompt 'root@wrisakarumia-XT3-34:/home/wrisakarumia#'.

```
root@wrisakarumia-XT3-34:/home/wrisakarumia# apt-get update
Hit:1 http://kartolo.sby.datautama.net.id/debian bullseye InRelease
Hit:2 http://deb.debian.org/debian bullseye InRelease
Ign:3 http://kartolo.sby.datautama.net.id/debian bullseye-update InRelease
Get:4 http://deb.debian.org/debian bullseye-updates InRelease [39.4 kB]
Ign:5 http://kartolo.sby.datautama.net.id/debian-security bullseye/updates InRelease
Err:6 http://kartolo.sby.datautama.net.id/debian bullseye-update Release
      404 Not Found [IP: 123.255.202.74 80]
Err:7 http://kartolo.sby.datautama.net.id/debian-security bullseye/updates Release
      404 Not Found [IP: 123.255.202.74 80]
Hit:8 http://security.debian.org/debian-security bullseye-security InRelease
Reading package lists... Done
E: The repository 'http://kartolo.sby.datautama.net.id/debian bullseye-update Release' does not have a Release file.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
E: The repository 'http://kartolo.sby.datautama.net.id/debian-security bullseye/updates Release' does not have a Release file.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
root@wrisakarumia-XT3-34:/home/wrisakarumia#
```

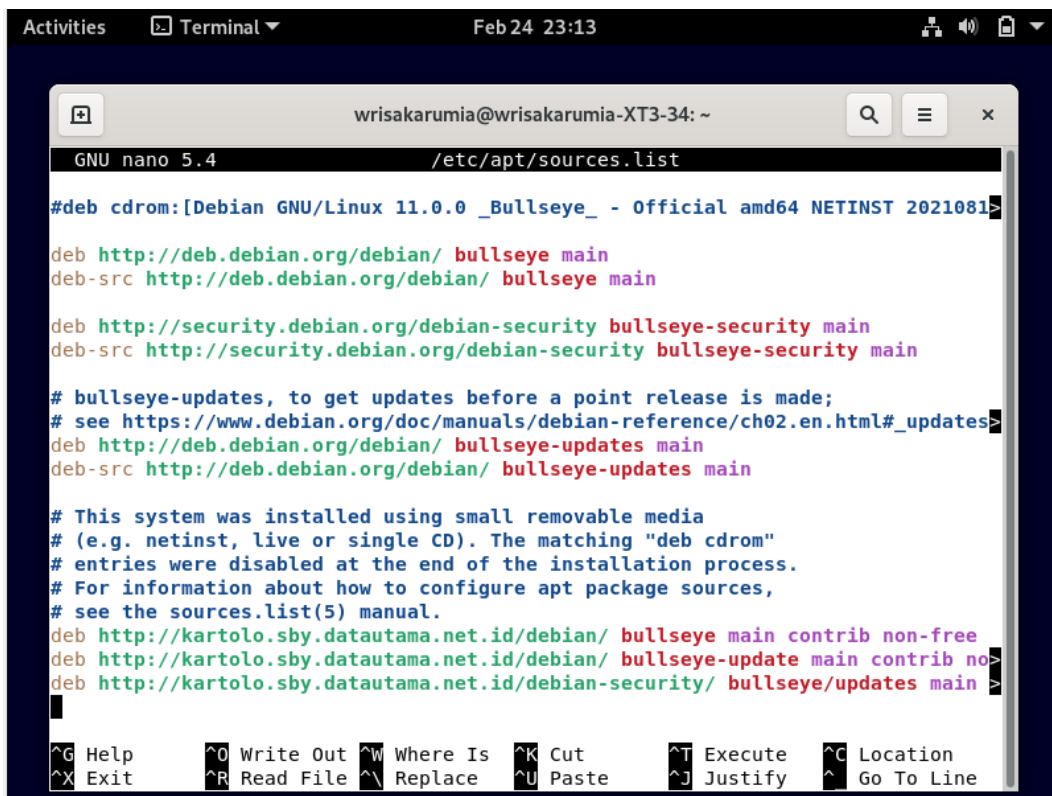
4. Ketik nono /etc/apt/source.list lalu tekan enter



A terminal window titled 'wrisakarumia@wrisakarumia-XT3-34: ~' showing the same output as the previous terminal window. The prompt is now 'root@wrisakarumia-XT3-34:/home/wrisakarumia# nano /etc/apt/source.list', indicating that the user has entered the command to edit the source list file using the nano editor.

```
root@wrisakarumia-XT3-34:/home/wrisakarumia# nano /etc/apt/source.list
```

5. Ketik data utama, setelah itu pencet Ctrl + x



```
GNU nano 5.4 /etc/apt/sources.list

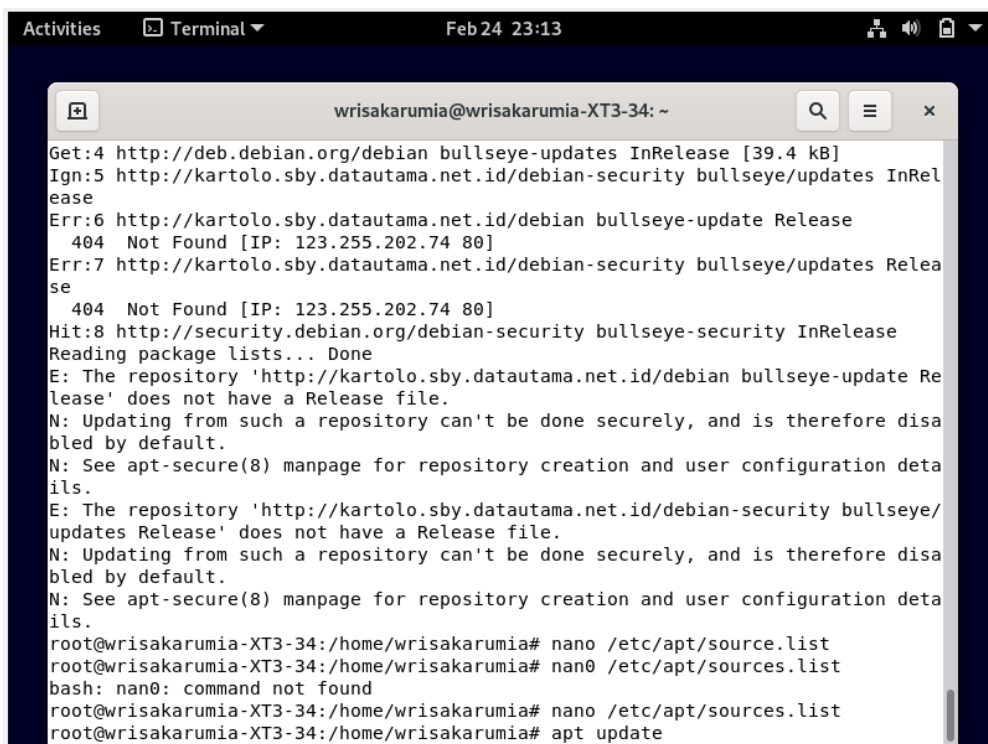
#deb cdrom:[Debian GNU/Linux 11.0.0 _Bullseye_ - Official amd64 NETINST 2021081]
deb http://deb.debian.org/debian/ bullseye main
deb-src http://deb.debian.org/debian/ bullseye main

deb http://security.debian.org/debian-security bullseye-security main
deb-src http://security.debian.org/debian-security bullseye-security main

# bullseye-updates, to get updates before a point release is made;
# see https://www.debian.org/doc/manuals/debian-reference/ch02.en.html#_updates
deb http://deb.debian.org/debian/ bullseye-updates main
deb-src http://deb.debian.org/debian/ bullseye-updates main

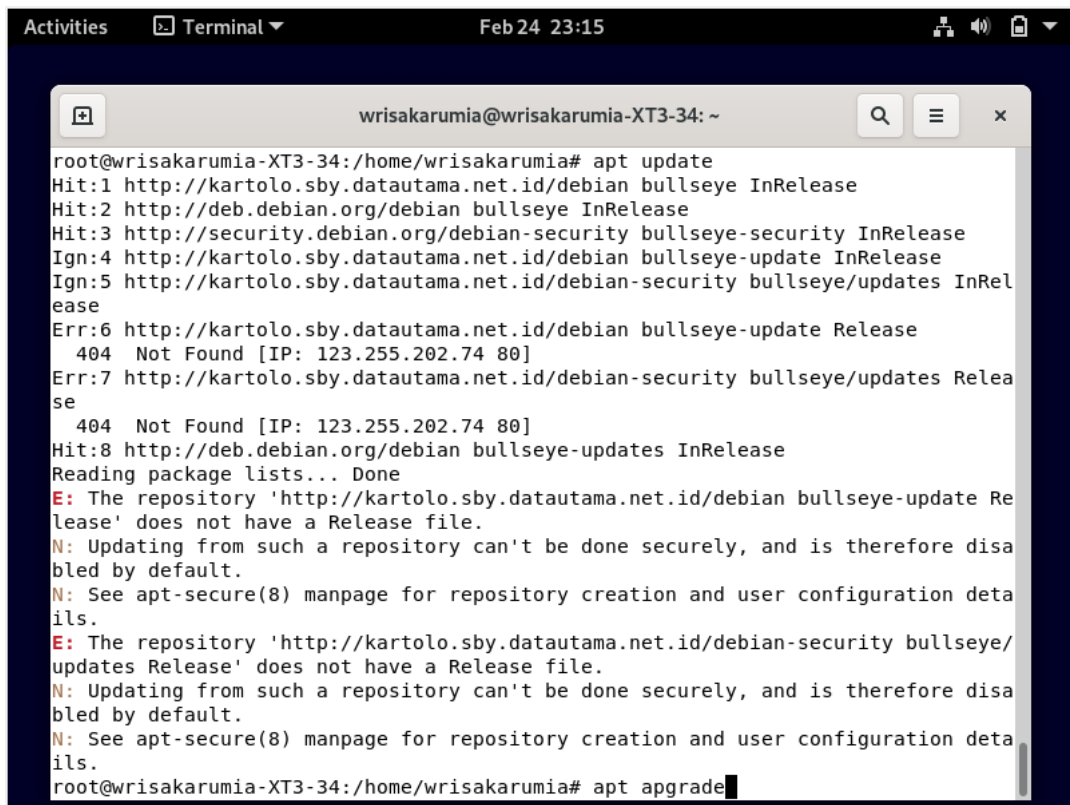
# This system was installed using small removable media
# (e.g. netinst, live or single CD). The matching "deb cdrom"
# entries were disabled at the end of the installation process.
# For information about how to configure apt package sources,
# see the sources.list(5) manual.
deb http://kartolo.sby.datautama.net.id/debian/ bullseye main contrib non-free
deb http://kartolo.sby.datautama.net.id/debian/ bullseye-updates main contrib non-free
deb http://kartolo.sby.datautama.net.id/debian-security/ bullseye-updates main
```

6. Ketik apt update, lalu enter



```
Get:4 http://deb.debian.org/debian bullseye-updates InRelease [39.4 kB]
Ign:5 http://kartolo.sby.datautama.net.id/debian-security bullseye-updates InRelease
Err:6 http://kartolo.sby.datautama.net.id/debian bullseye-updates Release
  404 Not Found [IP: 123.255.202.74 80]
Err:7 http://kartolo.sby.datautama.net.id/debian-security bullseye-updates Release
  404 Not Found [IP: 123.255.202.74 80]
Hit:8 http://security.debian.org/debian-security bullseye-security InRelease
Reading package lists... Done
E: The repository 'http://kartolo.sby.datautama.net.id/debian bullseye-updates Release' does not have a Release file.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
E: The repository 'http://kartolo.sby.datautama.net.id/debian-security bullseye-updates Release' does not have a Release file.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
root@wrisakarumia-XT3-34:/home/wrisakarumia# nano /etc/apt/source.list
root@wrisakarumia-XT3-34:/home/wrisakarumia# nano /etc/apt/sources.list
bash: nano: command not found
root@wrisakarumia-XT3-34:/home/wrisakarumia# nano /etc/apt/sources.list
root@wrisakarumia-XT3-34:/home/wrisakarumia# apt update
```

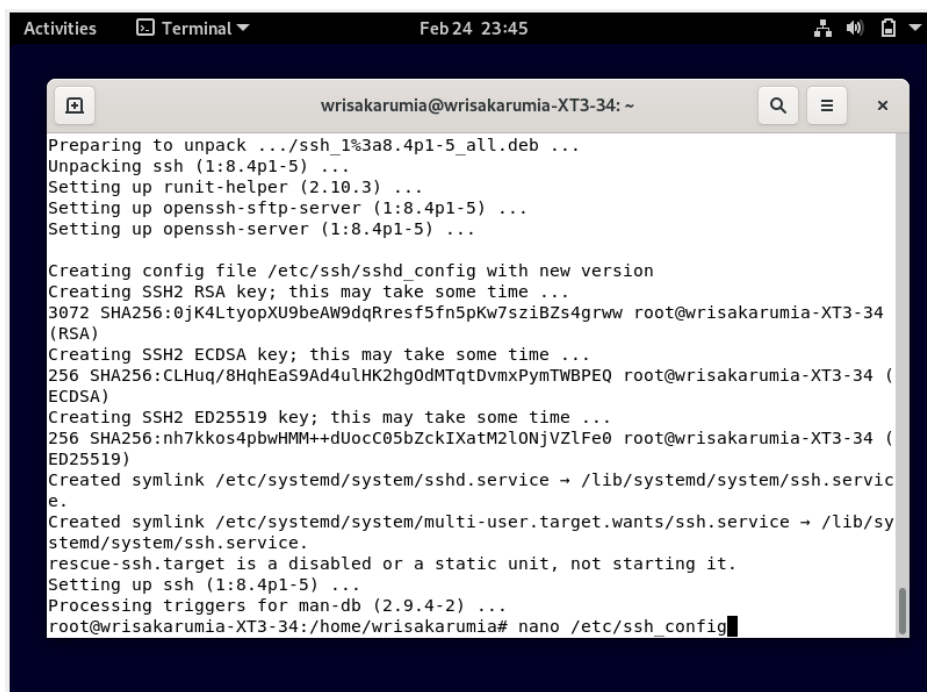
7. Ketik apt upgrade, lalu enter



A terminal window titled "wrisakarumia@wrisakarumia-XT3-34: ~" showing the output of the command `apt update`. The output lists several repositories and their release status, including errors for repositories that are not found. The command `apt upgrade` is entered at the bottom.

```
root@wrisakarumia-XT3-34:/home/wrisakarumia# apt update
Hit:1 http://kartolo.sby.datautama.net.id/debian bullseye InRelease
Hit:2 http://deb.debian.org/debian bullseye InRelease
Hit:3 http://security.debian.org/debian-security bullseye-security InRelease
Ign:4 http://kartolo.sby.datautama.net.id/debian bullseye-update InRelease
Ign:5 http://kartolo.sby.datautama.net.id/debian-security bullseye/updates InRelease
Err:6 http://kartolo.sby.datautama.net.id/debian bullseye-update Release
      404 Not Found [IP: 123.255.202.74 80]
Err:7 http://kartolo.sby.datautama.net.id/debian-security bullseye/updates Release
      404 Not Found [IP: 123.255.202.74 80]
Hit:8 http://deb.debian.org/debian bullseye-updates InRelease
Reading package lists... Done
E: The repository 'http://kartolo.sby.datautama.net.id/debian bullseye-update Release' does not have a Release file.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
E: The repository 'http://kartolo.sby.datautama.net.id/debian-security bullseye/updates Release' does not have a Release file.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
root@wrisakarumia-XT3-34:/home/wrisakarumia# apt upgrade
```

8. Ketik `nano /etc/ssh/ssh_config`, lalu enter

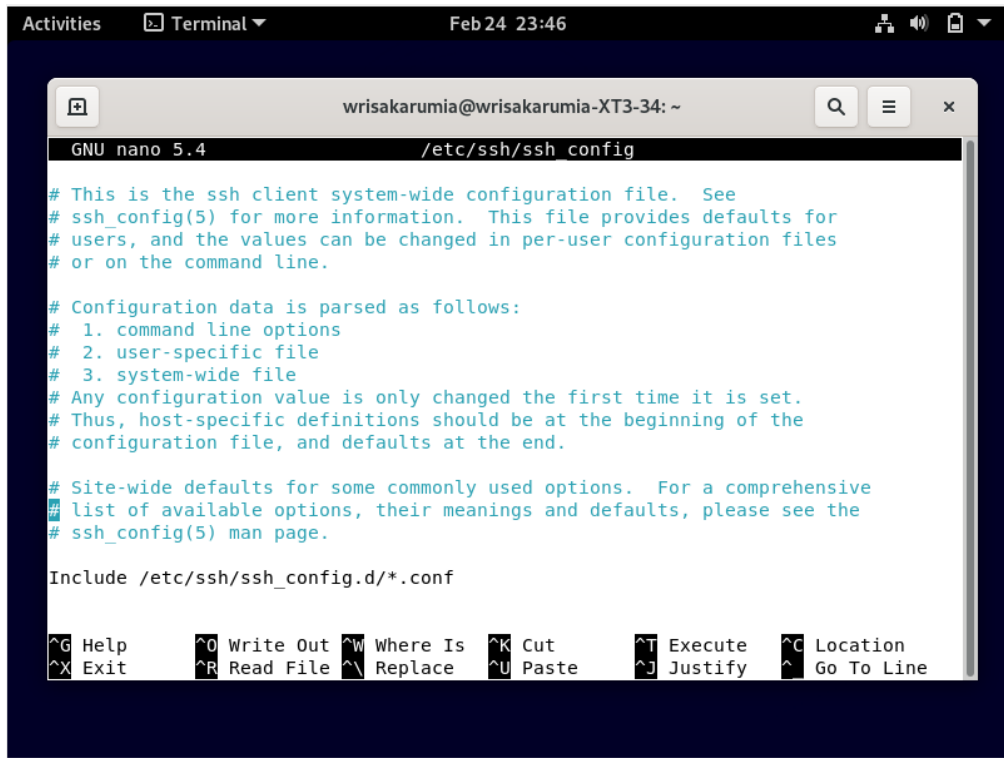


A terminal window titled "wrisakarumia@wrisakarumia-XT3-34: ~" showing the output of the command `apt upgrade`. The output indicates that the SSH package is being upgraded and that the configuration file `/etc/ssh/sshd_config` is being created. The command `nano /etc/ssh/ssh_config` is entered at the bottom.

```
Preparing to unpack .../ssh_1%3a8.4p1-5_all.deb ...
Unpacking ssh (1:8.4p1-5) ...
Setting up runit-helper (2.10.3) ...
Setting up openssh-sftp-server (1:8.4p1-5) ...
Setting up openssh-server (1:8.4p1-5) ...

Creating config file /etc/ssh/sshd_config with new version
Creating SSH2 RSA key; this may take some time ...
3072 SHA256:0jK4LtyopXU9beAW9dqRresf5fn5pKw7sziBZs4grw root@wrisakarumia-XT3-34 (RSA)
Creating SSH2 ECDSA key; this may take some time ...
256 SHA256:CLHuq/8HqhEas9Ad4uLHK2hgOdMTqtDvmxPymTWBPEQ root@wrisakarumia-XT3-34 (ECDSA)
Creating SSH2 ED25519 key; this may take some time ...
256 SHA256:nh7kkos4pbwHMM++dUocC05bZckIXatM2l0NjVZlFe0 root@wrisakarumia-XT3-34 (ED25519)
Created symlink /etc/systemd/system/sshd.service → /lib/systemd/system/ssh.service.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.service → /lib/systemd/system/ssh.service.
rescue-ssh.target is a disabled or a static unit, not starting it.
Setting up ssh (1:8.4p1-5) ...
Processing triggers for man-db (2.9.4-2) ...
root@wrisakarumia-XT3-34:/home/wrisakarumia# nano /etc/ssh/ssh_config
```

9. Akan muncul gambar begini



```
Activities Terminal Feb 24 23:46
wrisakarumia@wrisakarumia-XT3-34: ~
GNU nano 5.4 /etc/ssh/ssh_config

# This is the ssh client system-wide configuration file. See
# ssh_config(5) for more information. This file provides defaults for
# users, and the values can be changed in per-user configuration files
# or on the command line.

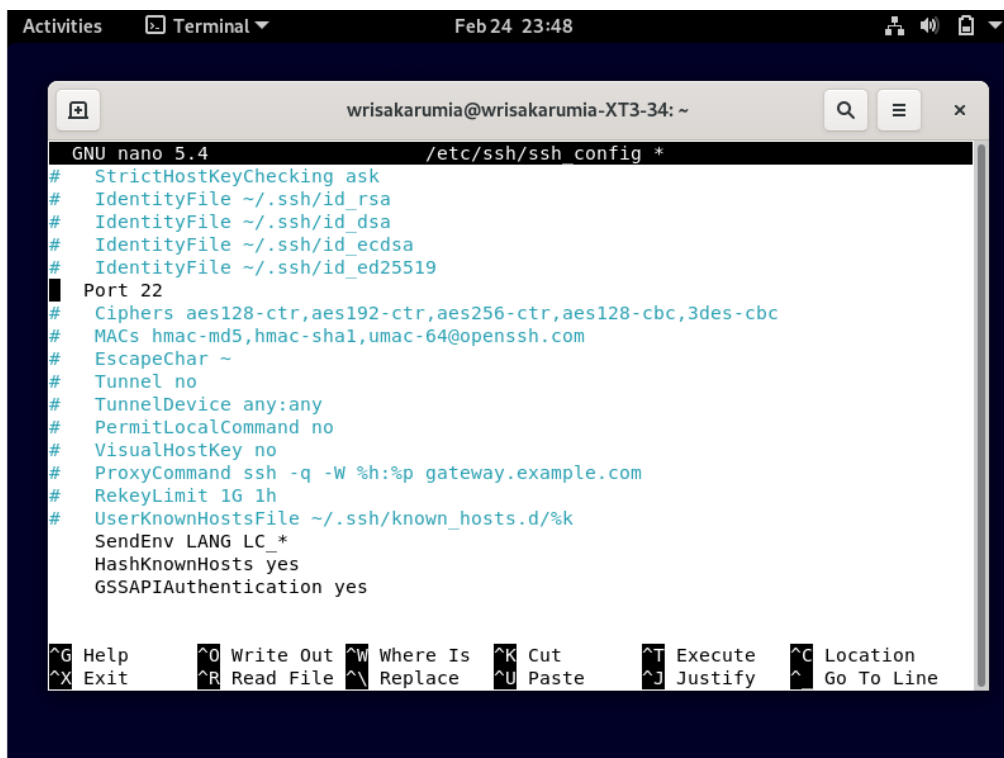
# Configuration data is parsed as follows:
# 1. command line options
# 2. user-specific file
# 3. system-wide file
# Any configuration value is only changed the first time it is set.
# Thus, host-specific definitions should be at the beginning of the
# configuration file, and defaults at the end.

# Site-wide defaults for some commonly used options. For a comprehensive
# list of available options, their meanings and defaults, please see the
# ssh_config(5) man page.

Include /etc/ssh/ssh_config.d/*.conf

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line
```

10. Cari Port 22 hapus bigian #. Lalu tekan Ctrl + x pilih Y



```
Activities Terminal Feb 24 23:48
wrisakarumia@wrisakarumia-XT3-34: ~
GNU nano 5.4 /etc/ssh/ssh_config *
# StrictHostKeyChecking ask
# IdentityFile ~/.ssh/id_rsa
# IdentityFile ~/.ssh/id_dsa
# IdentityFile ~/.ssh/id_ecdsa
# IdentityFile ~/.ssh/id_ed25519
Port 22
# Ciphers aes128-ctr,aes192-ctr,aes256-ctr,aes128-cbc,3des-cbc
# MACs hmac-md5,hmac-sha1,umac-64@openssh.com
# EscapeChar ~
# Tunnel no
# TunnelDevice any:any
# PermitLocalCommand no
# VisualHostKey no
# ProxyCommand ssh -q -W %h:%p gateway.example.com
# RekeyLimit 1G 1h
# UserKnownHostsFile ~/.ssh/known_hosts.d/%k
SendEnv LANG LC_*
HashKnownHosts yes
GSSAPIAuthentication yes

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line
```

11. Ketik systemctl restart ssh, lalu enter

```
Activities Terminal Feb 24 23:50

wrisakarumia@wrisakarumia-XT3-34: ~
Setting up runit-helper (2.10.3) ...
Setting up openssh-sftp-server (1:8.4p1-5) ...
Setting up openssh-server (1:8.4p1-5) ...

Creating config file /etc/ssh/sshd_config with new version
Creating SSH2 RSA key; this may take some time ...
3072 SHA256:0jK4LtyopXU9beAW9dqRresf5fn5pKw7sziBZs4grww root@wrisakarumia-XT3-34
(RSA)
Creating SSH2 ECDSA key; this may take some time ...
256 SHA256:CLHuq/8HqhEaS9Ad4ulHK2hg0dMTqtDvmxPymTWBPEQ root@wrisakarumia-XT3-34 (
ECDSA)
Creating SSH2 ED25519 key; this may take some time ...
256 SHA256:nh7kkos4pbwHMM++dUoc05bZckIXatM2lONjvZlFe0 root@wrisakarumia-XT3-34 (
ED25519)
Created symlink /etc/systemd/system/ssh.service → /lib/systemd/system/ssh.servic
e.
Created symlink /etc/systemd/system/multi-user.target.wants/ssh.service → /lib/sy
stemd/system/ssh.service.
rescue-ssh.target is a disabled or a static unit, not starting it.
Setting up ssh (1:8.4p1-5) ...
Processing triggers for man-db (2.9.4-2) ...
root@wrisakarumia-XT3-34:/home/wrisakarumia# nano /etc/ssh_config
root@wrisakarumia-XT3-34:/home/wrisakarumia# nano /etc/ssh/ssh_config
root@wrisakarumia-XT3-34:/home/wrisakarumia# systemctl restart ssh
```

12. Setelah itu akan muncul gambar ini, tandanya sudah selesai

```
Activities Terminal Feb 24 23:52

wrisakarumia@wrisakarumia-XT3-34: ~
Processing triggers for man-db (2.9.4-2) ...
root@wrisakarumia-XT3-34:/home/wrisakarumia# nano /etc/ssh_config
root@wrisakarumia-XT3-34:/home/wrisakarumia# nano /etc/ssh/ssh_config
root@wrisakarumia-XT3-34:/home/wrisakarumia# systemctl restart ssh
bash: systemctl: command not found
root@wrisakarumia-XT3-34:/home/wrisakarumia# systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: ena
   Active: active (running) since Thu 2022-02-24 23:43:36 EST; 7min ago
     Docs: man:sshd(8)
           man:sshd_config(5)
  Process: 4266 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
 Main PID: 4267 (sshd)
    Tasks: 1 (limit: 1117)
   Memory: 1.1M
      CPU: 32ms
   CGroup: /system.slice/ssh.service
           └─4267 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups

Feb 24 23:43:36 wrisakarumia-XT3-34 systemd[1]: Starting OpenBSD Secure Shell se
Feb 24 23:43:36 wrisakarumia-XT3-34 sshd[4267]: Server listening on 0.0.0.0 port
Feb 24 23:43:36 wrisakarumia-XT3-34 sshd[4267]: Server listening on :: port 22.
Feb 24 23:43:36 wrisakarumia-XT3-34 systemd[1]: Started OpenBSD Secure Shell ser
lines 1-17/17 (END)
```

