

JARINGAN KOMPUTER
“Client Server”



DISUSUN OLEH :

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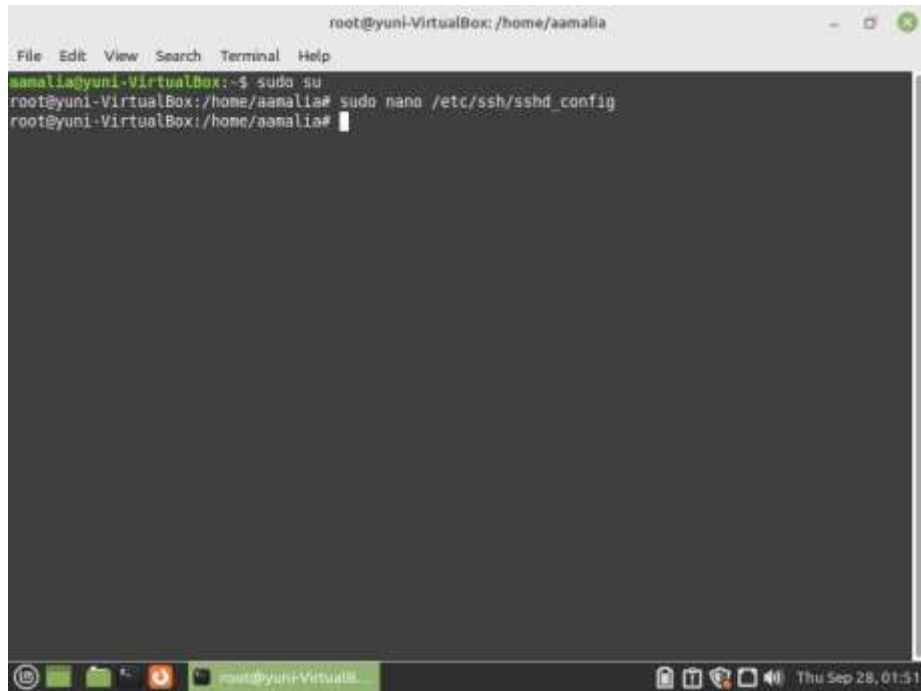
DOSEN :

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Adi Hermansyah, S.Kom., M.T.

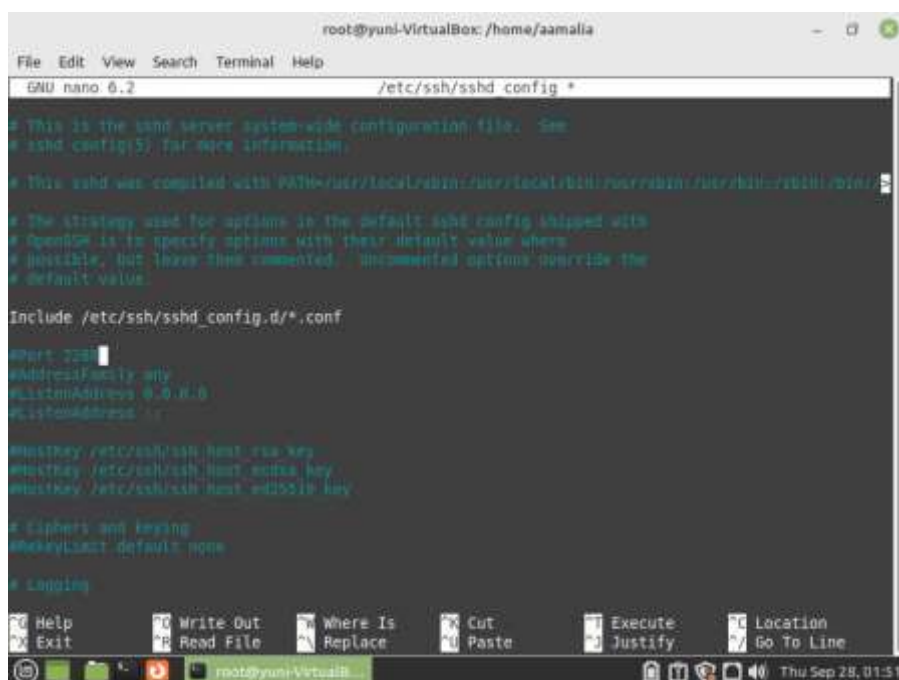
PROGRAM STUDI SISTEM KOMPUTER
FAKULTAS ILMU KOMPUTER
UNIVERSITAS SRIWIJAYA
TAHUN AJARAN 2023/2024

1. Login linux dan buka terminal untuk mengetik perintah `#sudo apt-get install ssh` guna menginstall SSH Server di linux mint ubuntu. Disini saya menggunakan linux teman saya.



```
root@yuni-VirtualBox: /home/aamalia
File Edit View Search Terminal Help
aamalia@yuni-VirtualBox:~$ sudo su
root@yuni-VirtualBox:/home/aamalia# sudo nano /etc/ssh/sshd_config
root@yuni-VirtualBox:/home/aamalia#
```

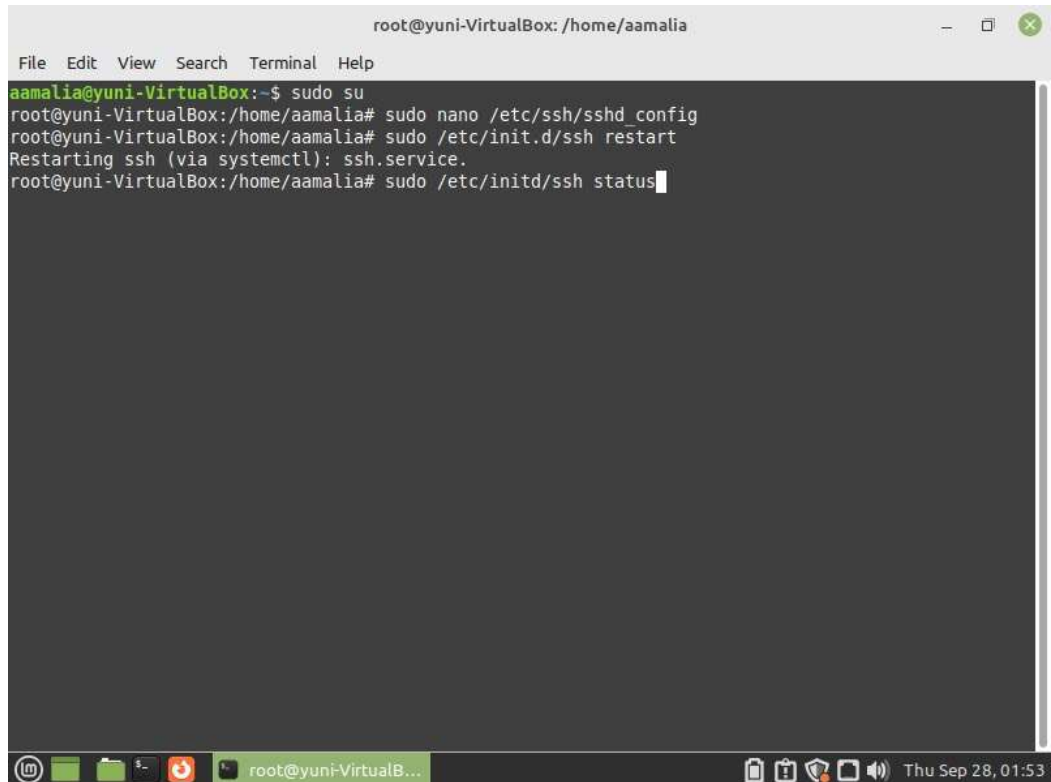
2. Dan jika sudah terinstall buka file config `sshd_config` pada directory `/etc/ssh` dengan teks `nano #sudo nano/etc/ssd/sshd_config`



```
root@yuni-VirtualBox: /home/aamalia
File Edit View Search Terminal Help
GNU nano 6.2 /etc/ssh/sshd config *
# This is the sshd server system-wide configuration file. See
# sshd_config(5) for more information.
# This sshd was compiled with PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
# The strategy used for options in the default sshd config shipped with
# OpenSSH is to specify options with their default value where
# possible, but leave them commented. Uncommented options override the
# default value.
Include /etc/ssh/sshd_config.d/*.conf
#Port 22
#AddressFamily any
#ListenAddress 0.0.0.0
#ListenAddress ::
#HostKey /etc/ssh/ssh_host_rsa_key
#HostKey /etc/ssh/ssh_host_ecdsa_key
#HostKey /etc/ssh/ssh_host_ed25519_key
# Ciphers and keying
#KexAlgos defaults none
# Logging
Help Write Out Where Is Cut Execute Location
Exit Read File Replace Paste Justify Go To Line
root@yuni-VirtualBox: /home/aamalia#
```

Dan untuk baris port 22 itu diganti dengan saya pilih port 2288 dan tekan CTRL+Y kemudian Enter.

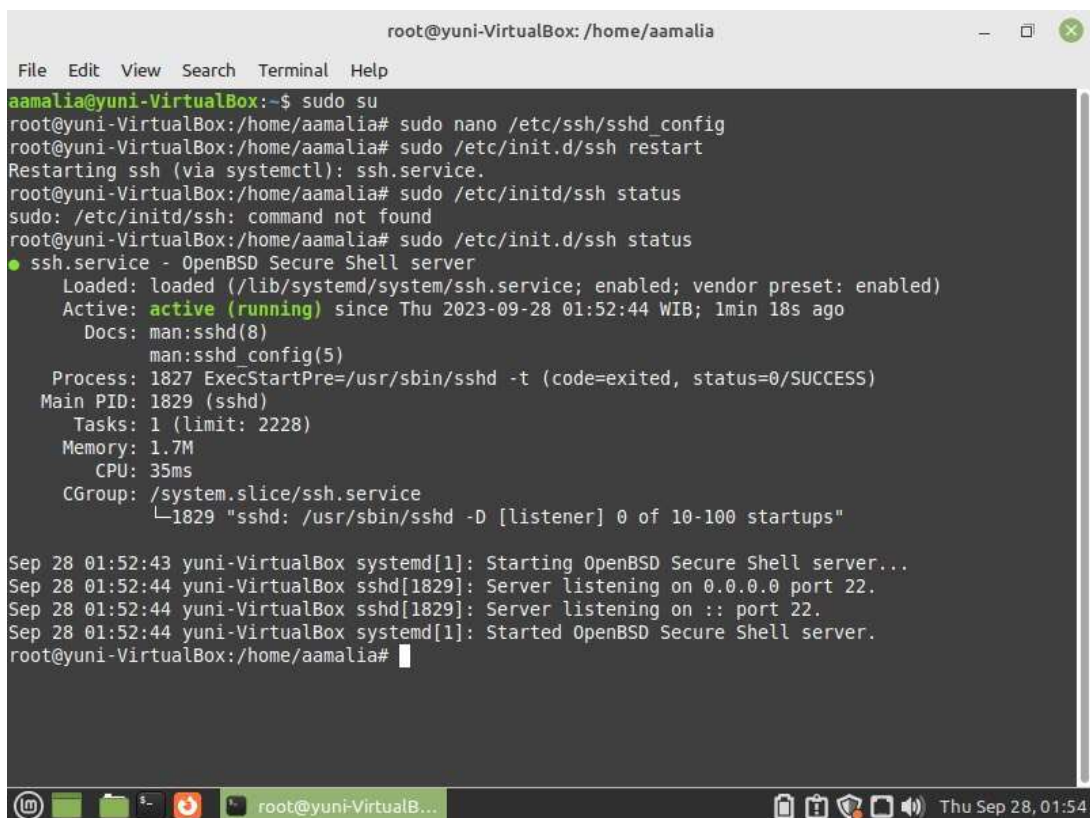
3. Kemudian restart SSH

A terminal window titled 'root@yuni-VirtualBox: /home/aamalia' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and output:

```
aamalia@yuni-VirtualBox:~$ sudo su
root@yuni-VirtualBox:/home/aamalia# sudo nano /etc/ssh/sshd_config
root@yuni-VirtualBox:/home/aamalia# sudo /etc/init.d/ssh restart
Restarting ssh (via systemctl): ssh.service.
root@yuni-VirtualBox:/home/aamalia# sudo /etc/initd/ssh status
```

The terminal window has a dark background and a light-colored title bar. The bottom status bar shows the user 'root@yuni-VirtualB...', system icons, and the date/time 'Thu Sep 28, 01:53'.

4. Dan ini tampilan untuk melihat keaktifan server SSH

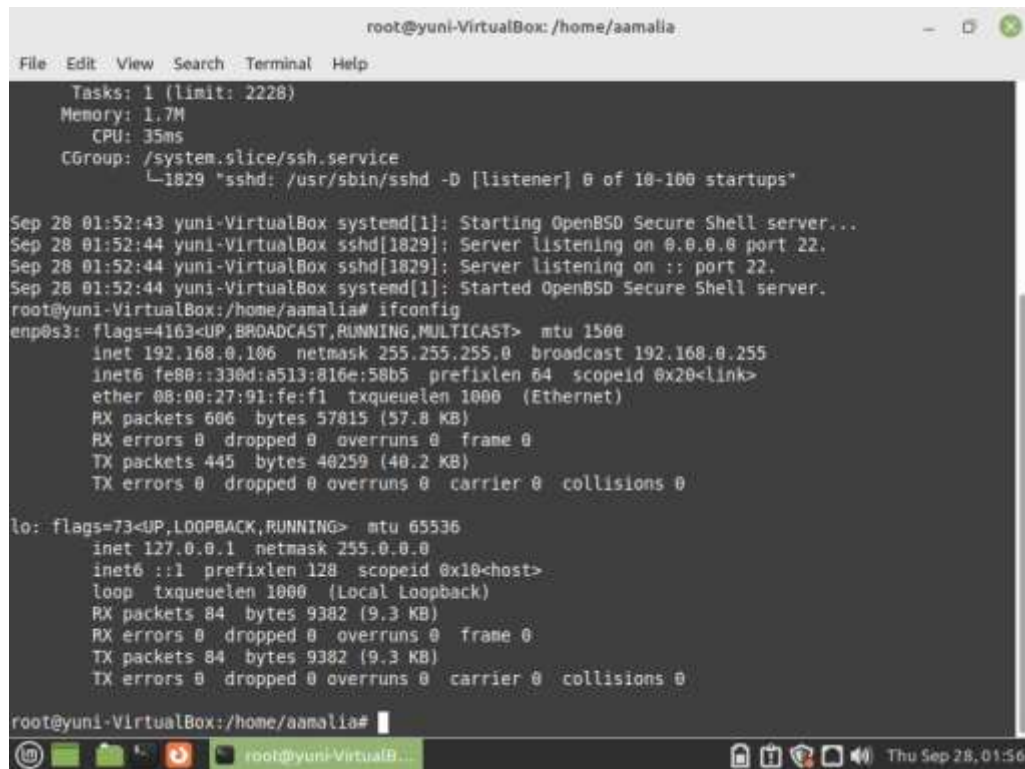
A terminal window titled 'root@yuni-VirtualBox: /home/aamalia' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and output:

```
aamalia@yuni-VirtualBox:~$ sudo su
root@yuni-VirtualBox:/home/aamalia# sudo nano /etc/ssh/sshd_config
root@yuni-VirtualBox:/home/aamalia# sudo /etc/init.d/ssh restart
Restarting ssh (via systemctl): ssh.service.
root@yuni-VirtualBox:/home/aamalia# sudo /etc/initd/ssh status
sudo: /etc/initd/ssh: command not found
root@yuni-VirtualBox:/home/aamalia# sudo /etc/init.d/ssh status
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2023-09-28 01:52:44 WIB; 1min 18s ago
     Docs: man:sshd(8)
           man:sshd_config(5)
  Process: 1827 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
 Main PID: 1829 (sshd)
   Tasks: 1 (limit: 2228)
  Memory: 1.7M
     CPU: 35ms
  CGroup: /system.slice/ssh.service
          └─1829 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

Sep 28 01:52:43 yuni-VirtualBox systemd[1]: Starting OpenBSD Secure Shell server...
Sep 28 01:52:44 yuni-VirtualBox sshd[1829]: Server listening on 0.0.0.0 port 22.
Sep 28 01:52:44 yuni-VirtualBox sshd[1829]: Server listening on :: port 22.
Sep 28 01:52:44 yuni-VirtualBox systemd[1]: Started OpenBSD Secure Shell server.
root@yuni-VirtualBox:/home/aamalia#
```

The terminal window has a dark background and a light-colored title bar. The bottom status bar shows the user 'root@yuni-VirtualB...', system icons, and the date/time 'Thu Sep 28, 01:54'.

5. Untuk mencari ip ketik saja #ifconfig dan akan muncul seperti dibawah, jika sudah maka buka apk putty untuk menghubungkan linux ke putty.



```
root@yuni-VirtualBox: /home/aamalia
File Edit View Search Terminal Help

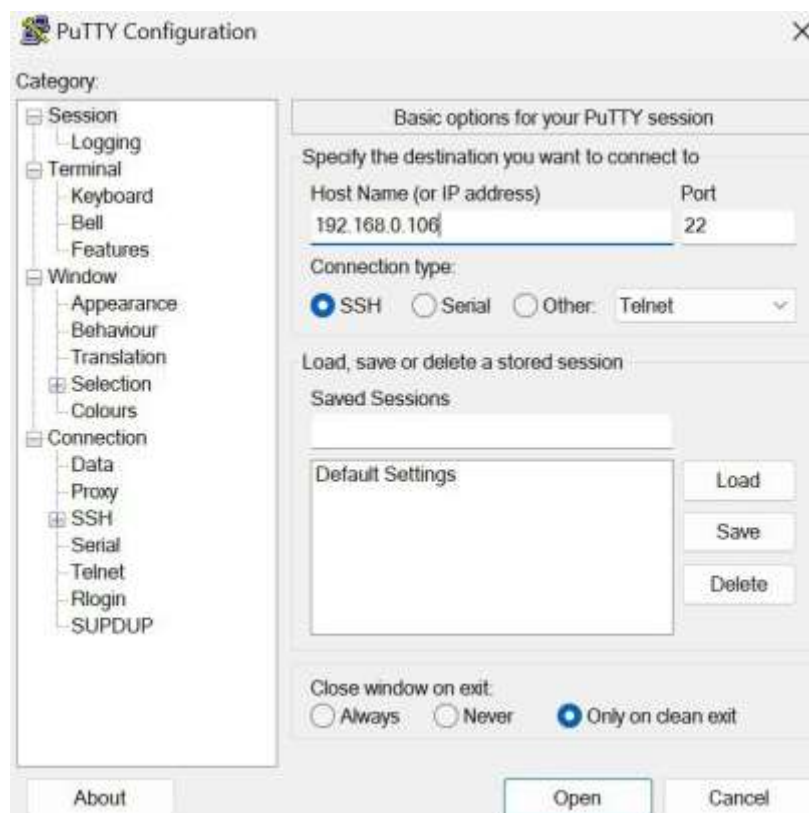
Tasks: 1 (limit: 2228)
Memory: 1.7M
CPU: 35ms
CGroup: /system.slice/ssh.service
└─1829 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

Sep 28 01:52:43 yuni-VirtualBox systemd[1]: Starting OpenBSD Secure Shell server...
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Sep 28 01:52:44 yuni-VirtualBox sshd[1829]: Server listening on :: port 22.
Sep 28 01:52:44 yuni-VirtualBox systemd[1]: Started OpenBSD Secure Shell server.
root@yuni-VirtualBox: /home/aamalia# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.106 netmask 255.255.255.0 broadcast 192.168.0.255
    inet6 fe80::330d:a513:816e:58b5 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:91:fe:f1 txqueuelen 1000 (Ethernet)
    RX packets 606 bytes 57815 (57.8 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 445 bytes 40259 (40.2 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

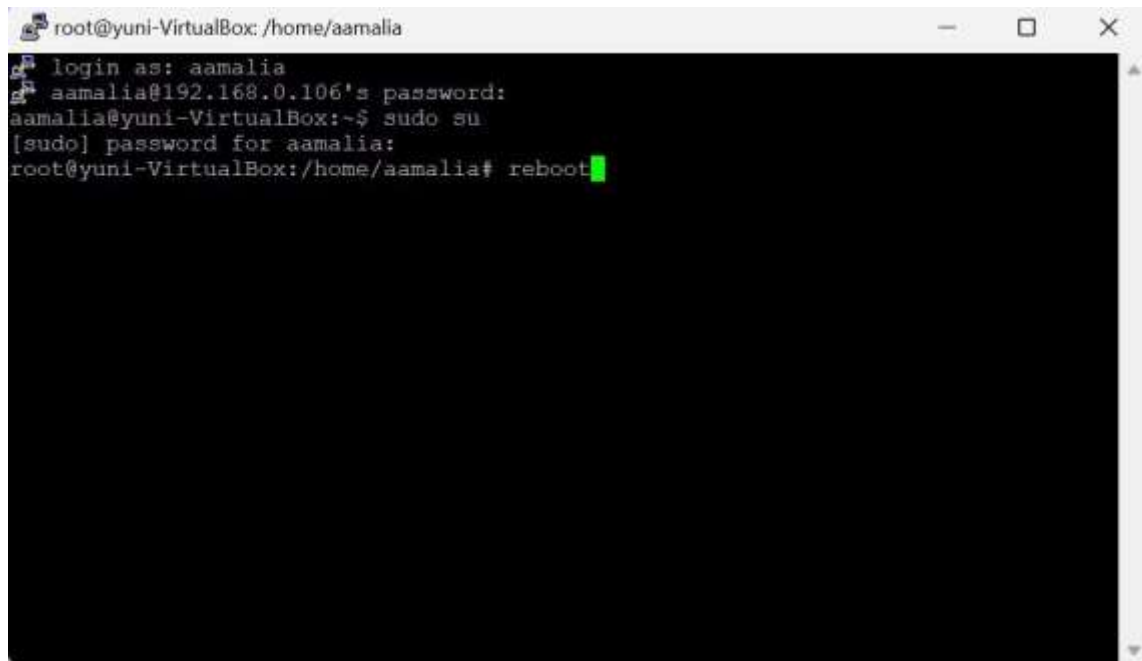
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 84 bytes 9382 (9.3 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 84 bytes 9382 (9.3 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@yuni-VirtualBox: /home/aamalia#
```

6. Masukan ip di apk putty



7. Tampilan ini kita memasukan password dan ketik #reboot lalu enter gunanya untuk memastikan sudah atau belum terhubung nya linux di putty.



```
root@yuni-VirtualBox: /home/aamalia
login as: aamalia
aamalia@192.168.0.106's password:
aamalia@yuni-VirtualBox:~$ sudo su
[sudo] password for aamalia:
root@yuni-VirtualBox:/home/aamalia# reboot
```

8. Setelah tampilan ini maka putty ke linux mint suda terhubung dan akan kembali ke tampilan awal linux.

