

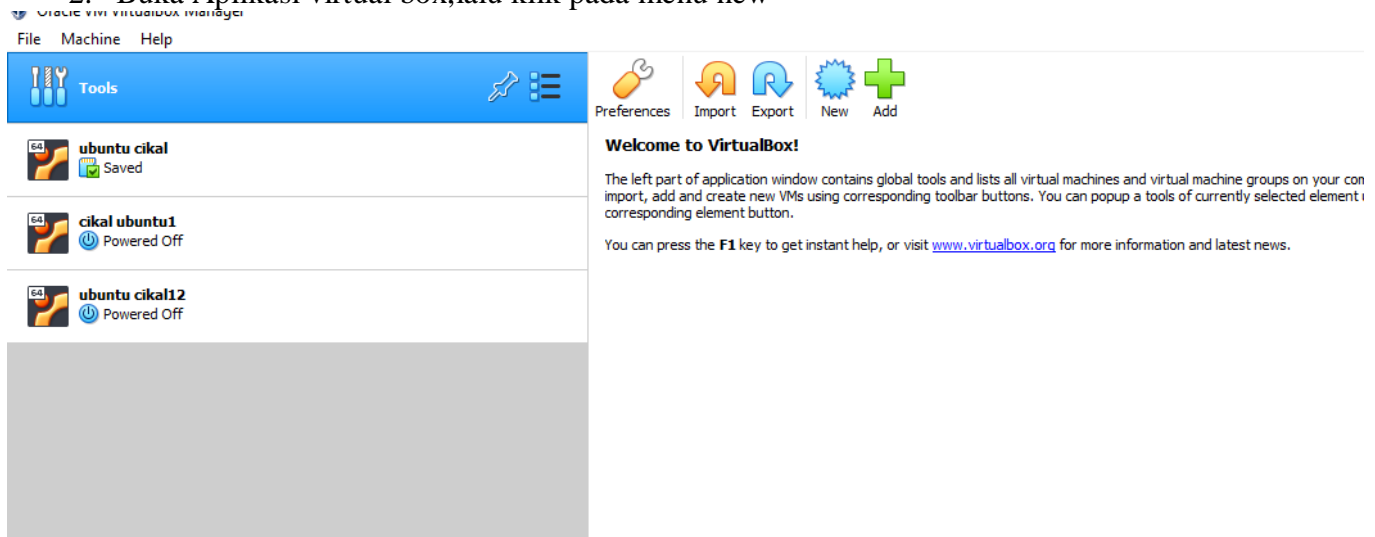


PENGANTAR TELEKOMUNIKASI

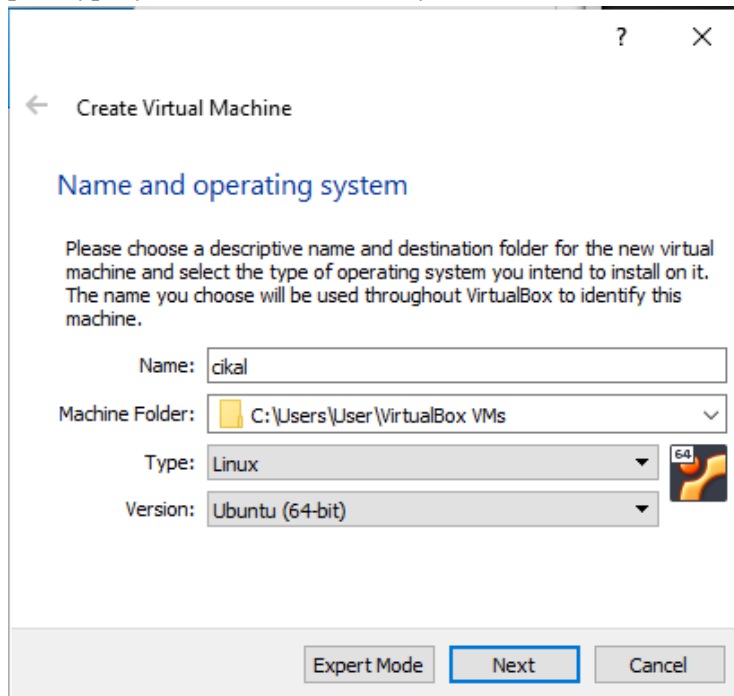


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Jurusan : Sistem Komputer
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Mata Kuliah : Pengantar Telekomunikasi

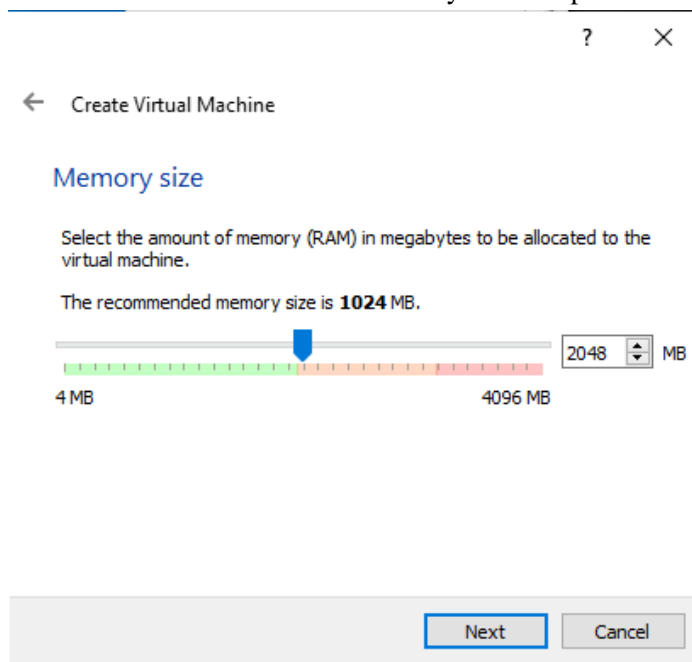
1. Langkah pertama kita harus menyiapkan dan menginstall Aplikasi Virtual Box,Ubuntu server(saya menggunakan ubuntu server 20.04),dan yang terakhir PuTTY.
2. Buka Aplikasi virtual box,lalu klik pada menu new



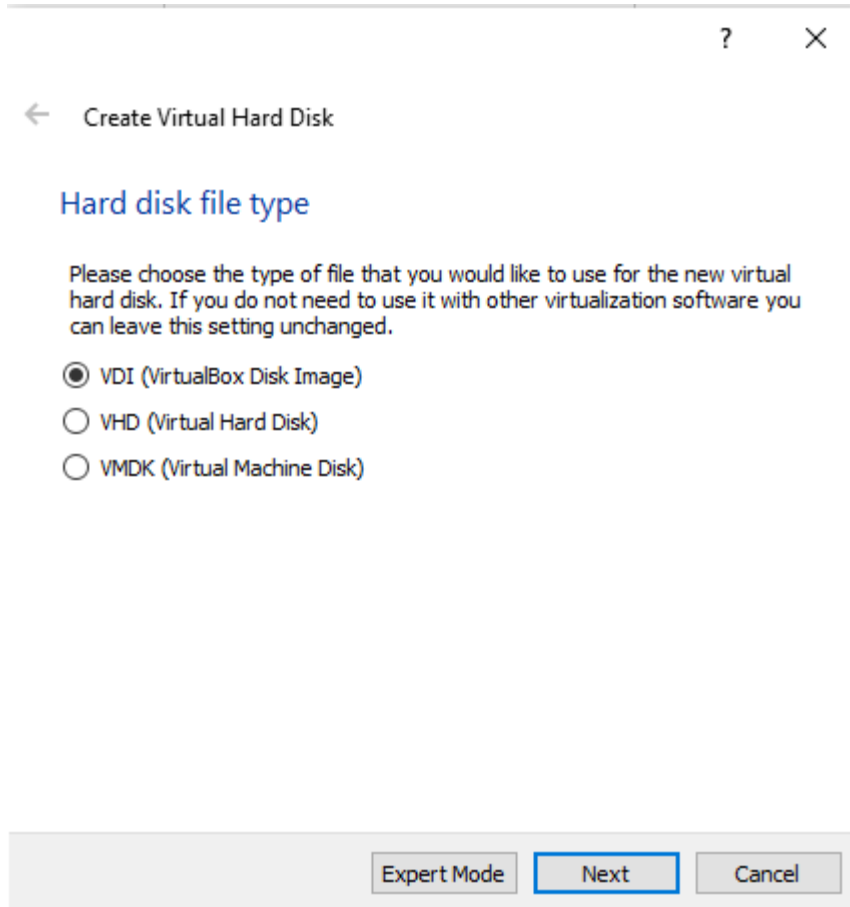
3. kemudian kita isi nama untuk ubuntu servernya, seperti menggunakan nama " cikal" kemudian pilih typenya di linux dan versionnya di ubuntu 64 bit, lalu klik next



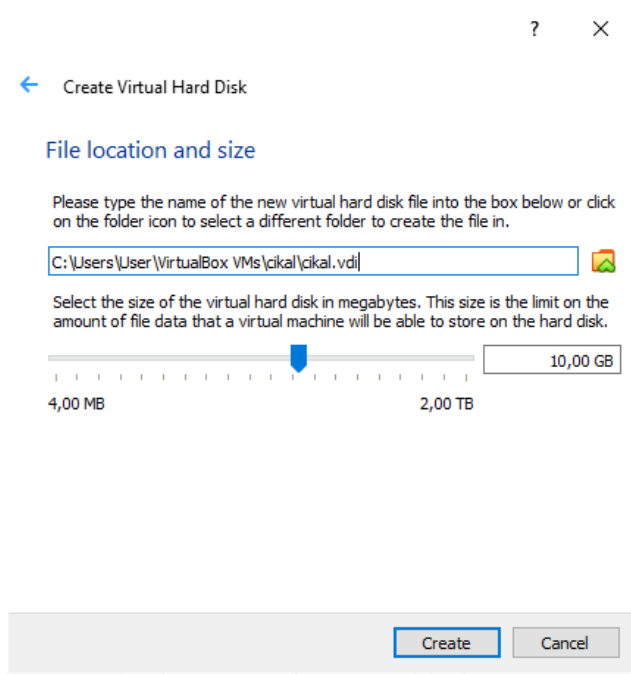
4. kemudian akan muncul untuk memory zise dan pilih sesuai kapasitas.



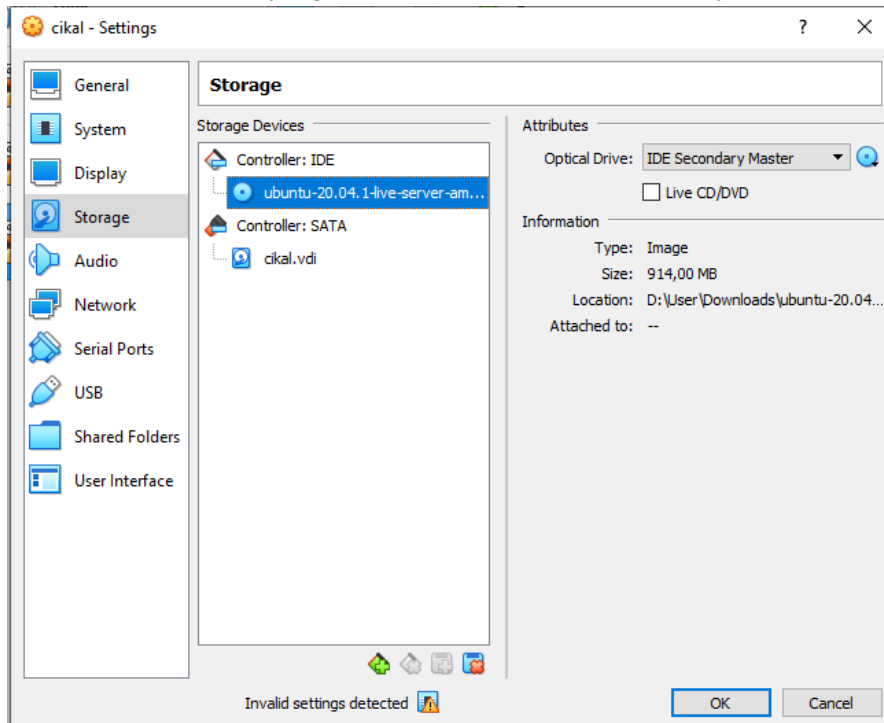
5. setelah itu akan muncul untuk hard disk langsung saja klik create.



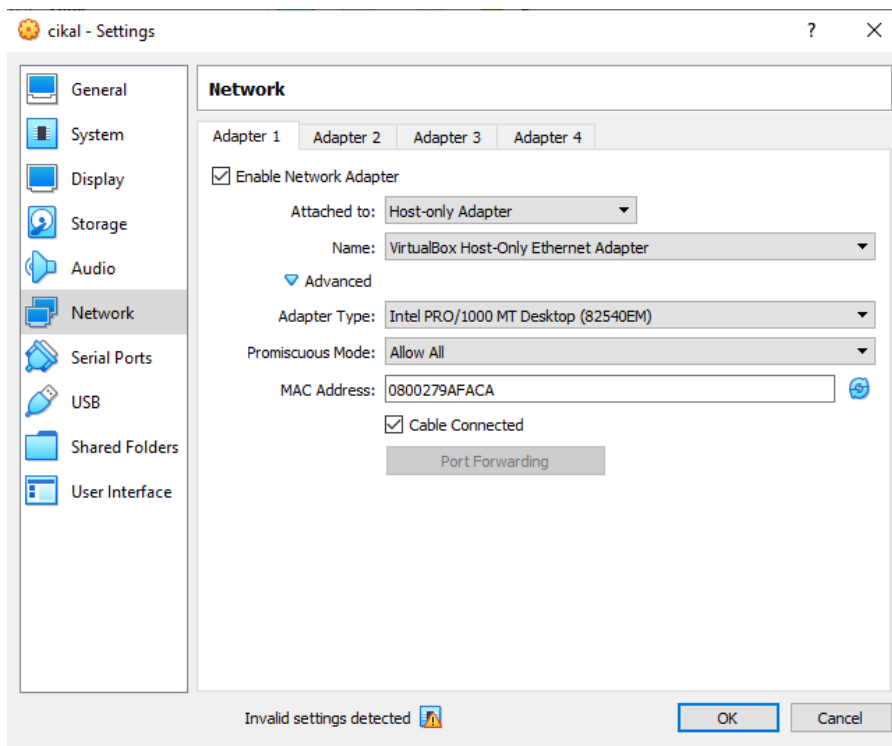
6. lalu nantinya akan terus muncul untuk hardisknya dan klik create terus hingga akan akan muncul untuk file location dan size,lalu klik create juga.



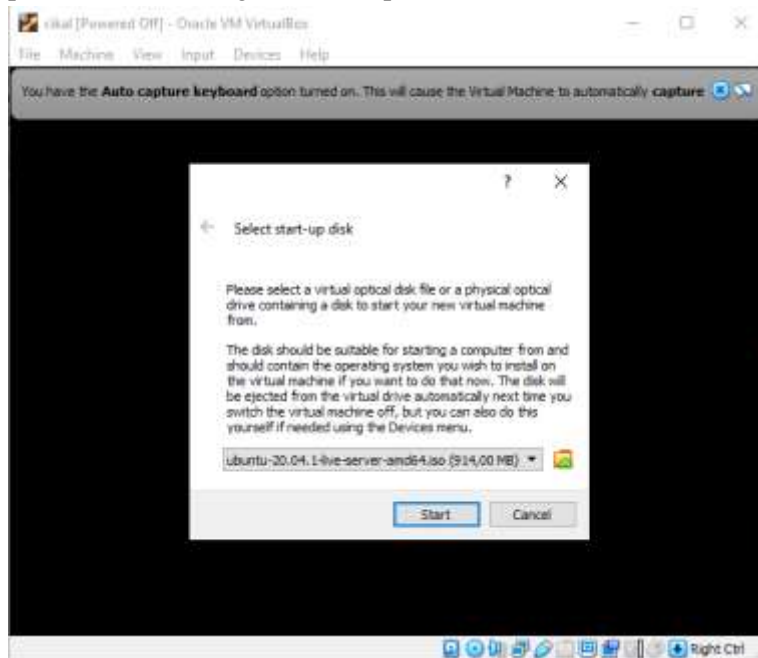
7. kemudian setelah itu klik menu setting dan masuk ke storage lalu klik di controller IDE dan masukkan file ubuntu yang sudah di install di web sebelumnya.



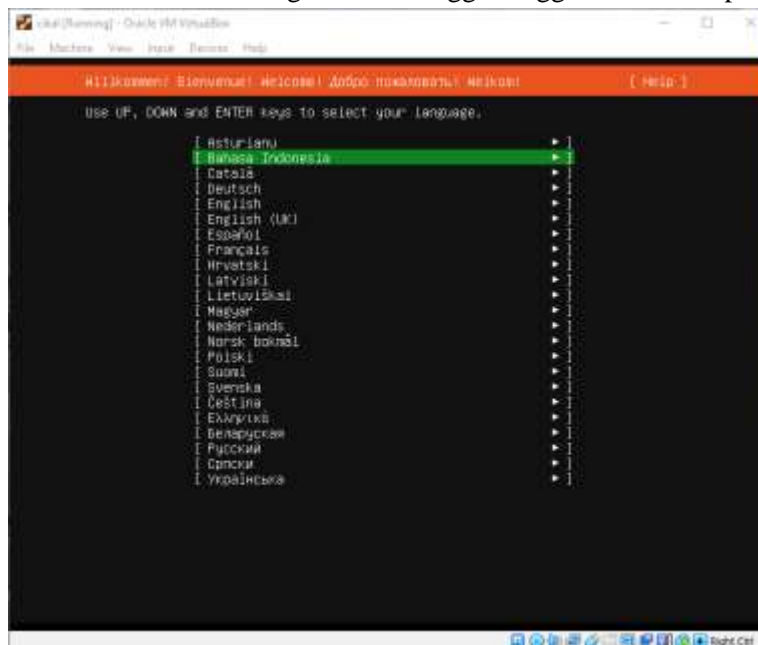
8. setelah itu klik pada network dan pilih adapter 1 nya host-only adapter dan di advance nya pilih allow all



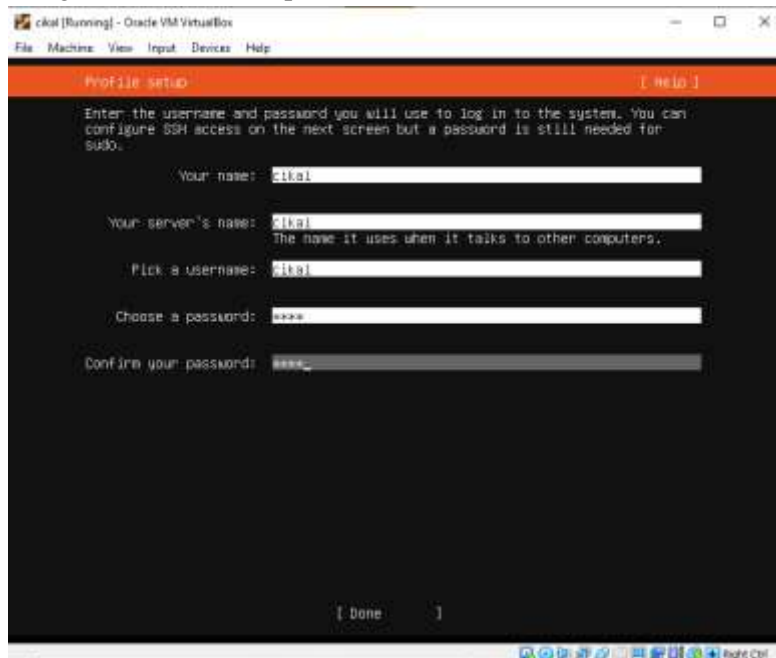
9. jika sudah klik ok dan klik start untuk memulai nenginstall ubuntu server dan nanti akan ada perintah untuk mengisi file lalu pilih file ubuntu server dan klik start



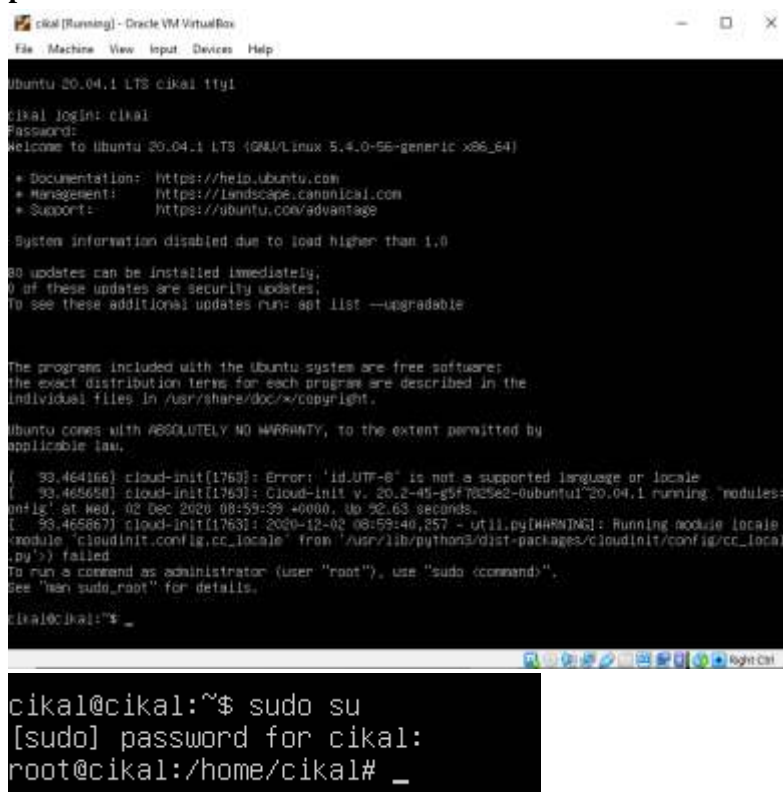
10. lalu ubuntu akan running dan kita tunggu hingga muncul tampilan untuk memilih bahasa



11. selanjutnya klik jika ada tampilan lagi maka klik done terus hingga akan muncul tampilan untuk mengisi user name dan password.



12. jika sudah selesai klik done dan kita tunggu penginstallannya sampai ada tulis reboot. Dan setelah itu kita tunggu lagi dan nantinya akan muncul perintah untuk login user name dan password yang sudah dibuat sebelumnya. Dan nanti kita akan ketik tulisan **“sudo su”** dan **password**.



13. selanjutnya ketik “**sudo apt install net-tools**” lalu klik enter dan ketik “**ifconfig**” juga lalu enter.

```
root@cikal:/home/cikal# sudo apt install net-tools
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  net-tools
0 upgraded, 1 newly installed, 0 to remove and 78 not upgraded.
Need to get 196 kB of archives.
After this operation, 864 kB of additional disk space will be used.
Get:1 http://id.archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60+git20180626.aebd88e-1ubuntu1 [196 kB]
Fetched 196 kB in 3s (78.0 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 70555 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20180626.aebd88e-1ubuntu1_amd64.deb ...
Unpacking net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Setting up net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
```

14. dan selanjutnya ketik “**ifconfig**” lalu enter. Tujuan dari ifconfig ialah untuk mencari IP

```
root@cikal:/home/cikal# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.56.108 netmask 255.255.255.0 broadcast 192.168.56.255
    inet6 fe80::a00:27ff:fe9a:faca prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:9a:fa:ca txqueuelen 1000 (Ethernet)
    RX packets 2 bytes 1180 (1.1 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 13 bytes 1540 (1.5 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

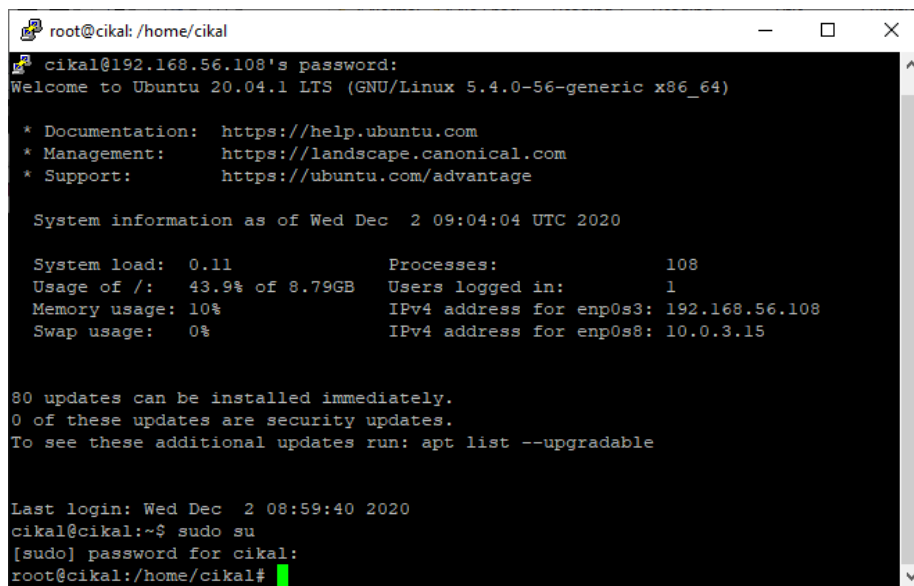
enp0s8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.3.15 netmask 255.255.255.0 broadcast 10.0.3.255
    inet6 fe80::a00:27ff:fe20:4b4 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:20:04:b4 txqueuelen 1000 (Ethernet)
    RX packets 287 bytes 249766 (249.7 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 258 bytes 25676 (25.6 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 197 bytes 15597 (15.5 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 197 bytes 15597 (15.5 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

15. selanjutnya ketik Ping IP yang sudah ada untuk bisa terhubung ke PuTTY.

```
root@cikal:/home/cikal# ping 192.168.56.1
PING 192.168.56.1 (192.168.56.1) 56(84) bytes of data.
64 bytes from 192.168.56.1: icmp_seq=1 ttl=128 time=9.61 ms
64 bytes from 192.168.56.1: icmp_seq=2 ttl=128 time=0.826 ms
64 bytes from 192.168.56.1: icmp_seq=3 ttl=128 time=0.657 ms
64 bytes from 192.168.56.1: icmp_seq=4 ttl=128 time=0.422 ms
64 bytes from 192.168.56.1: icmp_seq=5 ttl=128 time=0.654 ms
64 bytes from 192.168.56.1: icmp_seq=6 ttl=128 time=0.816 ms
64 bytes from 192.168.56.1: icmp_seq=7 ttl=128 time=0.748 ms
^C
--- 192.168.56.1 ping statistics ---
7 packets transmitted, 7 received, 0% packet loss, time 6011ms
rtt min/avg/max/mdev = 0.422/1.962/9.612/3.125 ms
root@cikal:/home/cikal# _
```


16. selanjutnya masuk ke PuTTY, masukkan nomer inet di host name(IP Address) kemudian dan login menggunakan user name dan password di PuTTY.



17. selanjutnya kita Ketik:

- **sudo apt update -y**
- **sudo apt install apache2-y**

```
root@cikal:/home/cikal# sudo apt update -y
Hit:1 http://id.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://id.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:3 http://id.archive.ubuntu.com/ubuntu focal-backports InRelease [101 kB]
Get:4 http://id.archive.ubuntu.com/ubuntu focal-security InRelease [109 kB]
Get:5 http://id.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [691 kB]
Get:6 http://id.archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [699 kB]
Fetched 1713 kB in 12s (149 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
78 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@cikal:/home/cikal#
```

```
root@cikal:/home/cikal# sudo apt install apache2 -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3
  libaprutil1-ldap libjansson4 liblua5.2-0 ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser openssl-blacklist
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3
  libaprutil1-ldap libjansson4 liblua5.2-0 ssl-cert
0 upgraded, 11 newly installed, 0 to remove and 78 not upgraded.
Need to get 1865 kB of archives.
After this operation, 8080 kB of additional disk space will be used.
Get:1 http://id.archive.ubuntu.com/ubuntu focal/main amd64 libapr1 amd64 1.6.5-1ubuntu1 [91.4 kB]
Get:2 http://id.archive.ubuntu.com/ubuntu focal/main amd64 libaprutil1 amd64 1.6.1-4ubuntu2 [84.7 kB]
Get:3 http://id.archive.ubuntu.com/ubuntu focal/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.1-4ubuntu2 [10.5 kB]
Get:4 http://id.archive.ubuntu.com/ubuntu focal/main amd64 libaprutil1-ldap amd64 1.6.1-4ubuntu2 [8736 B]
Get:5 http://id.archive.ubuntu.com/ubuntu focal/main amd64 libjansson4 amd64 2.12-1build1 [28.9 kB]
Get:6 http://id.archive.ubuntu.com/ubuntu focal/main amd64 liblua5.2-0 amd64 5.2.4-1.1build3 [106 kB]
Get:7 http://id.archive.ubuntu.com/ubuntu focal-updates/main amd64 apache2-bin amd64 2.4.41-4ubuntu3.1 [1180 kB]
45% [7 apache2-bin 459 kB/1180 kB 39%]_
```

18. selanjutnya masuk chrome lalu ketik IP Address

