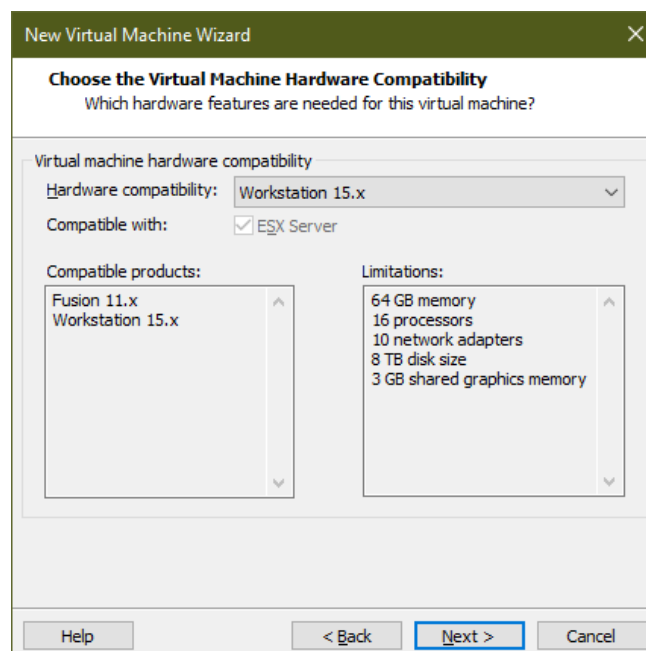


Nama : Adib Bachtiar  
NIM : 123170075  
Kelas : C

## Pengenalan VMware Workstation dan Linux OS

### 1. Pengenalan VMware Workstation



Memilih Hardware Compatibility sesuai dengan Operating System yang digunakan saat ini

New Virtual Machine Wizard

**Guest Operating System Installation**  
A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?

Install from:

☐ Installer disc:  
DVD RW Drive (F:)

☒ Installer disc image file (iso):  
C:\ISO Library\ubuntu-18.10-live-server-amd64.iso Browse...

☒ Ubuntu 64-bit Server 18.10 detected.  
This operating system will use Easy Install. [\(What's this?\)](#)

☐ I will install the operating system later.  
The virtual machine will be created with a blank hard disk.

Help < Back Next > Cancel

Lalu memilih Directory file yang berisi ISO untuk install Operating system

New Virtual Machine Wizard

**Easy Install Information**  
This is used to install Ubuntu 64-bit.

Personalize Linux

Full name: Adib Bachtiar

User name: adbchtr

Password: ●●●●●●

Confirm: ●●●●●●

Help < Back Next > Cancel

Lalu Masukkan data yang harus diisi

New Virtual Machine Wizard

**Name the Virtual Machine**  
What name would you like to use for this virtual machine?

Virtual machine name:

Location:

The default location can be changed at Edit > Preferences.

< Back   **Next >**   Cancel

Lalu tentukan direktori file tujuan untuk save file VMWare

New Virtual Machine Wizard

**Processor Configuration**  
Specify the number of processors for this virtual machine.

Processors

Number of processors:

Number of cores per processor:

Total processor cores: 2

Help   < Back   **Next >**   Cancel

New Virtual Machine Wizard

Memory for the Virtual Machine

How much memory would you like to use for this virtual machine?

Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.

64 GB -

32 GB -

16 GB -

8 GB -

4 GB -

2 GB -

1 GB -

512 MB -

256 MB -

128 MB -

64 MB -

32 MB -

16 MB -

8 MB -

4 MB -

Memory for this virtual machine:

1024

MB

Maximum recommended memory:

2 GB

Recommended memory:

2 GB

Guest OS recommended minimum:

1 GB

Help

< Back

Next >

Cancel

New Virtual Machine Wizard

Network Type

What type of network do you want to add?

Network connection

☐ Use bridged networking

Give the guest operating system direct access to an external Ethernet network. The guest must have its own IP address on the external network.

☒ Use network address translation (NAT)

Give the guest operating system access to the host computer's dial-up or external Ethernet network connection using the host's IP address.

☐ Use host-only networking

Connect the guest operating system to a private virtual network on the host computer.

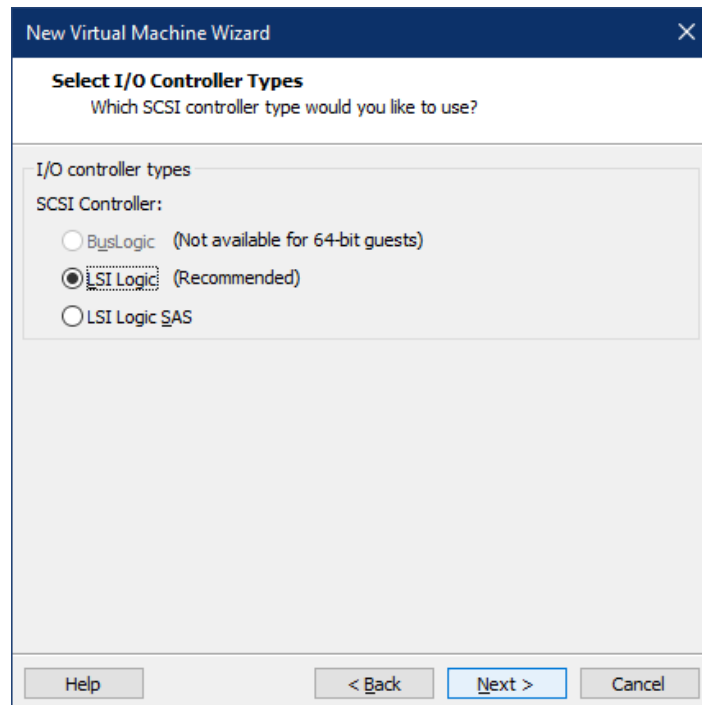
☐ Do not use a network connection

Help

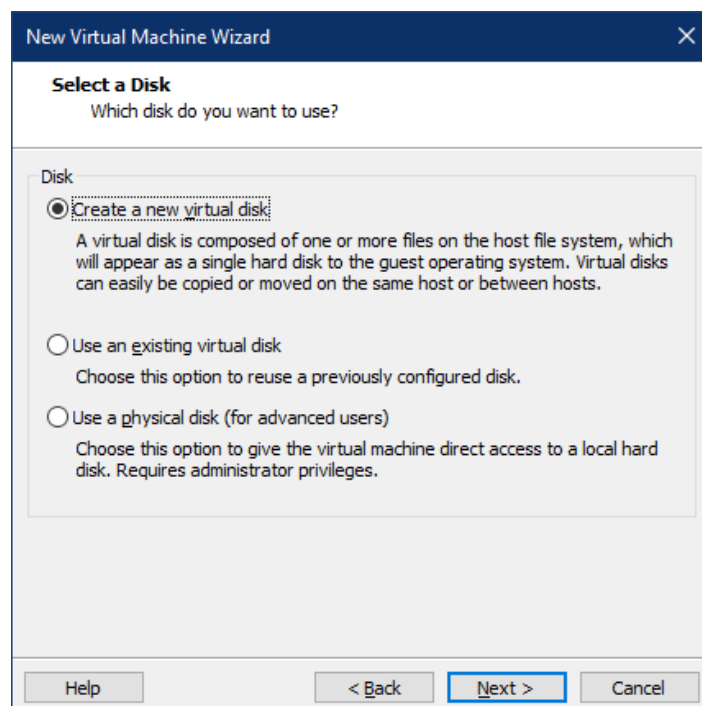
< Back

Next >

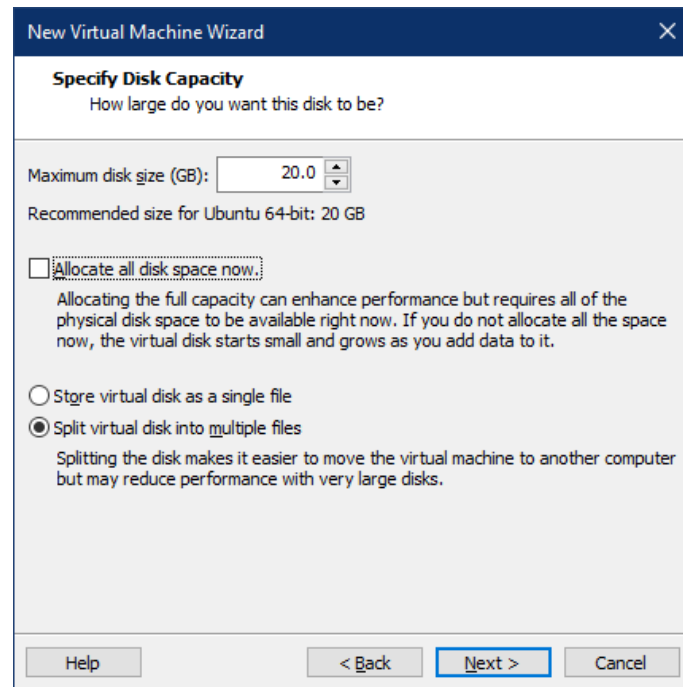
Cancel



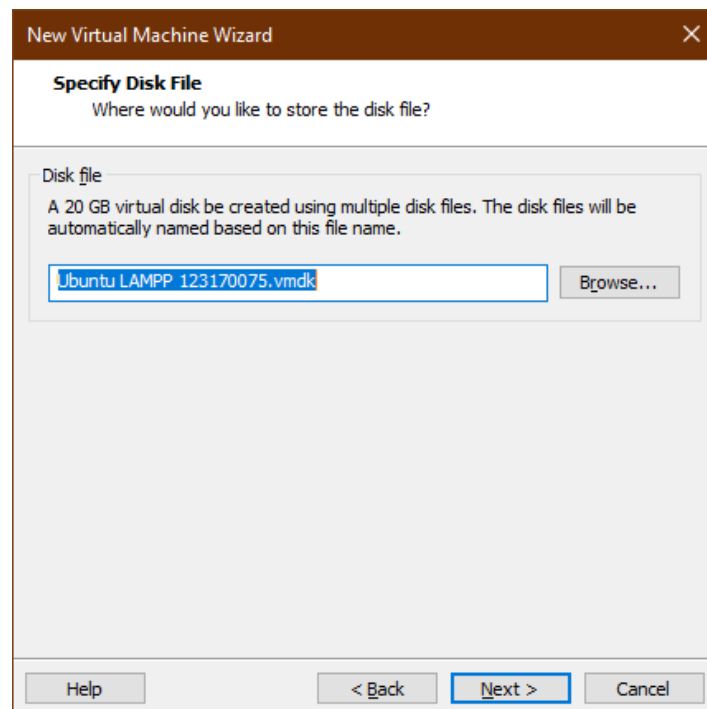
Memilih Controller type sesuai dengan generasi operating system yang mendukung



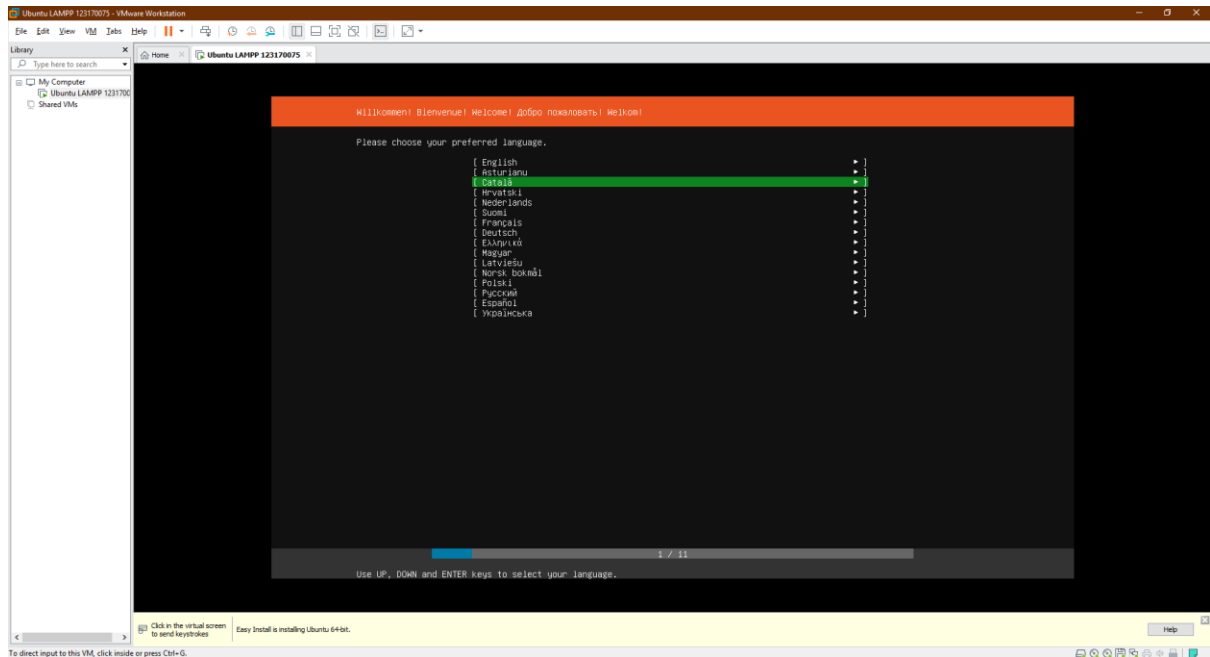
Memilih Virtual Machine, jika belum pernah dibuat maka pilih Create new Virtual Disc



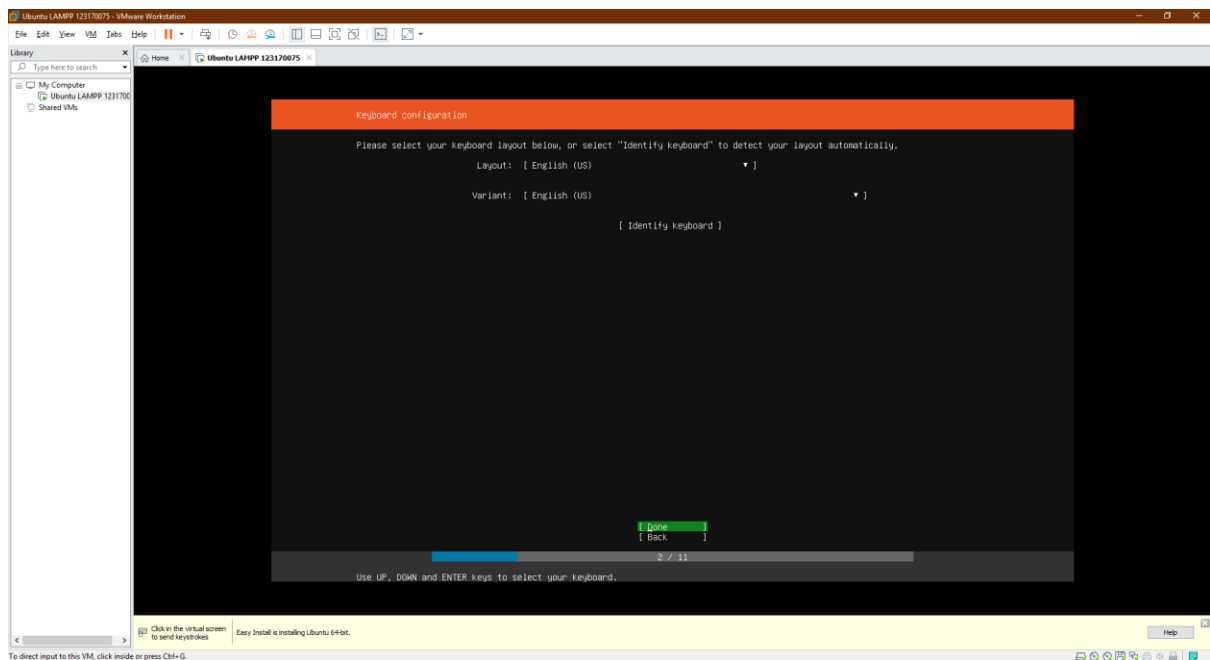
Lalu memilih Disk Capacity yaitu apakah file mau dijadikan 1 utuh atau dipecah



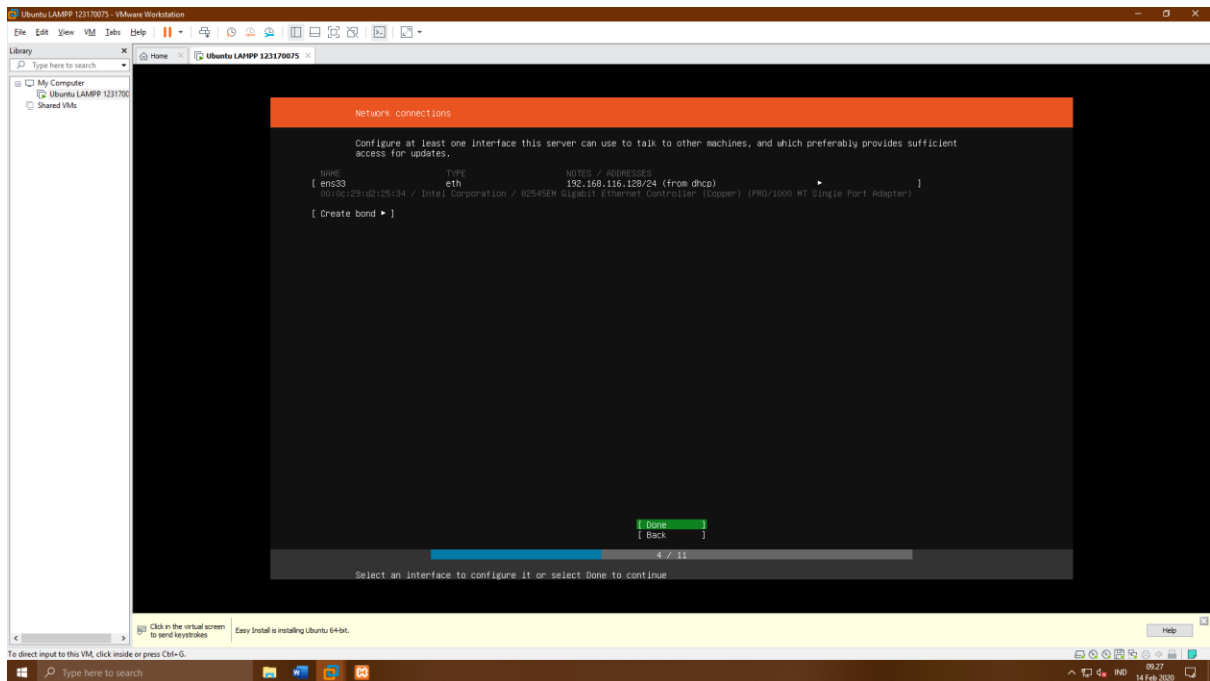
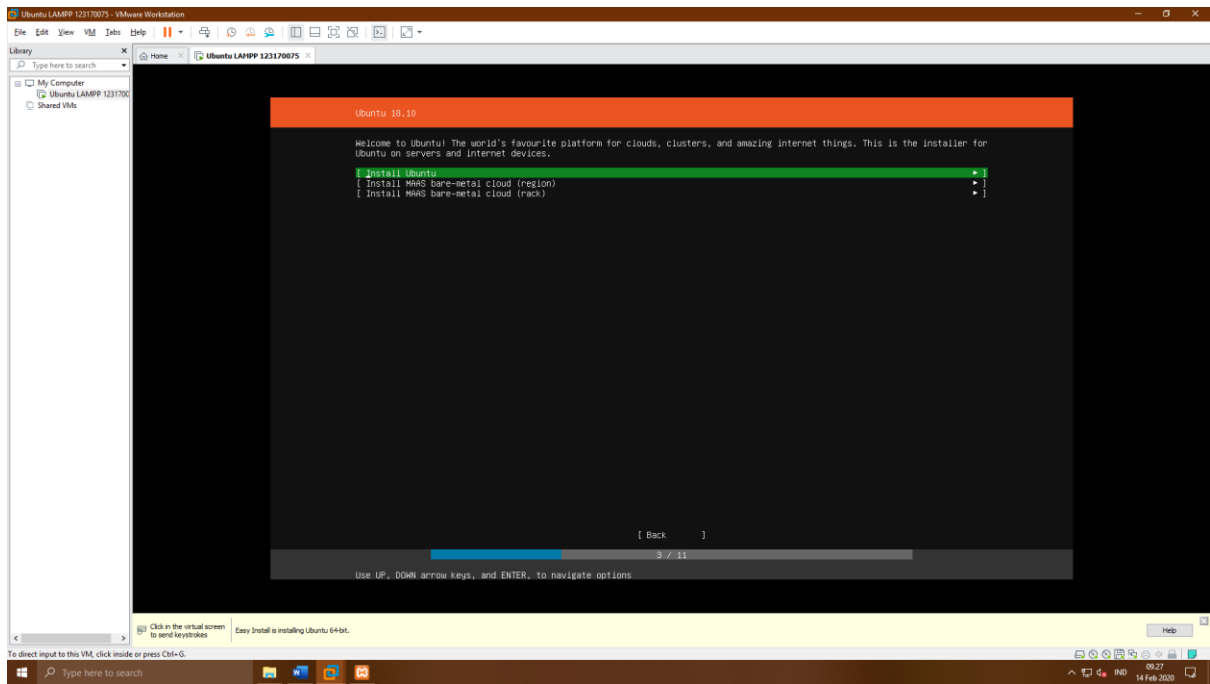
Lalu tempat save file data



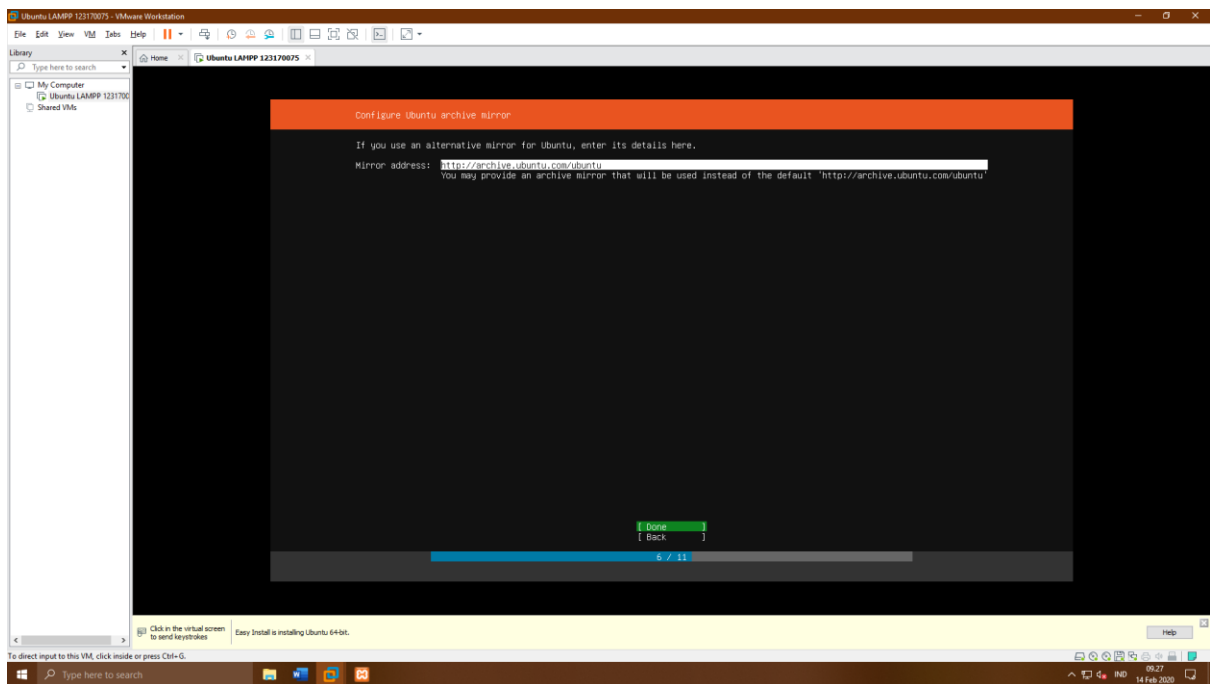
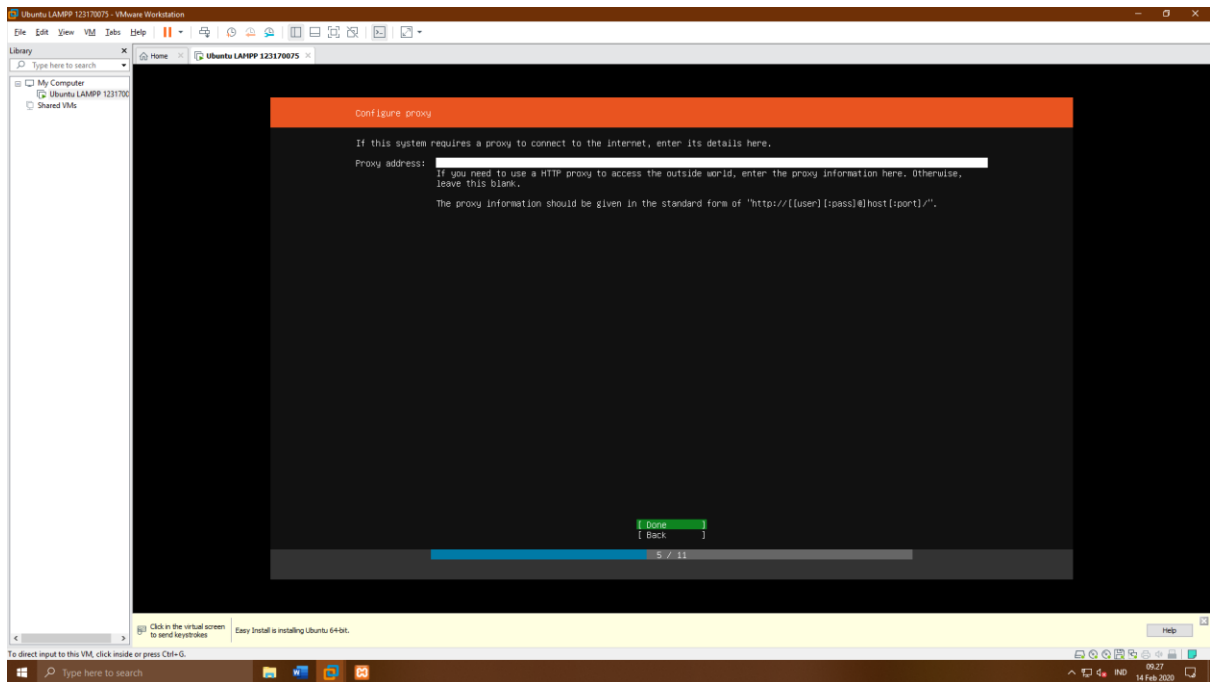
Ketika masuk ke tahapan ini maka, untuk berinteraksi maka bisa klik di layarnya, atau bisa dengan kombinasi CTRL+G lalu untuk kembali berinteraksi dengan layar awal maka bisa menggunakan kombinasi CTRL+ALT lalu pilih bahasa yang digunakan

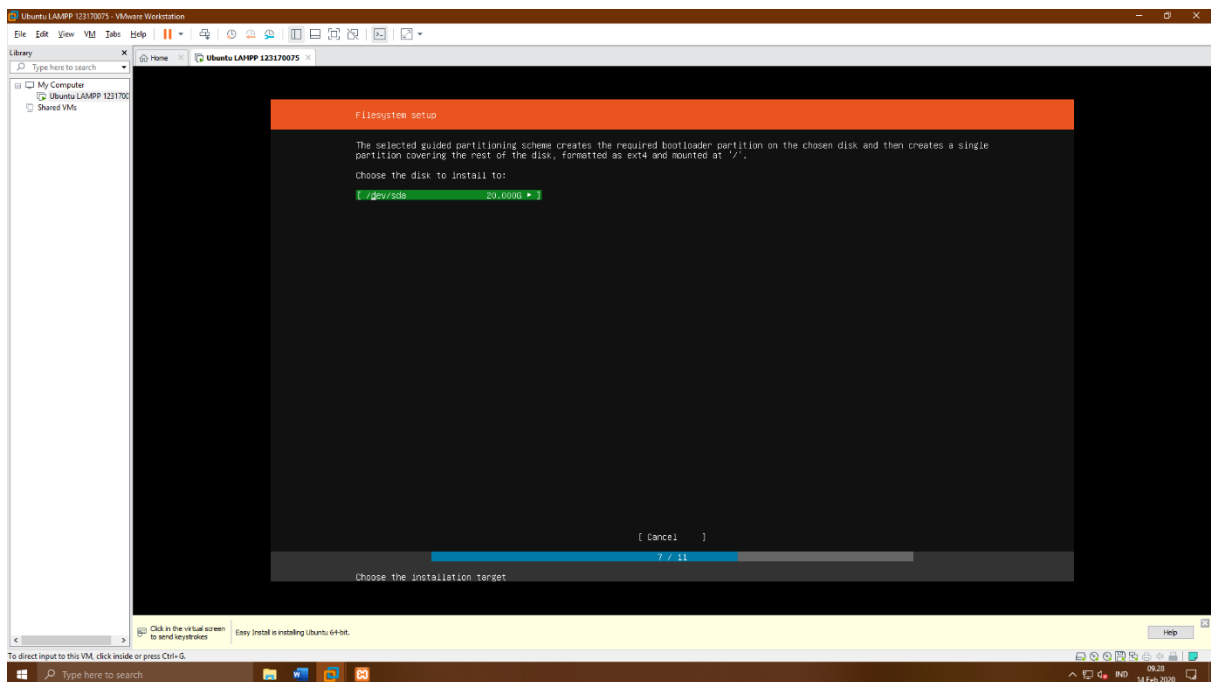
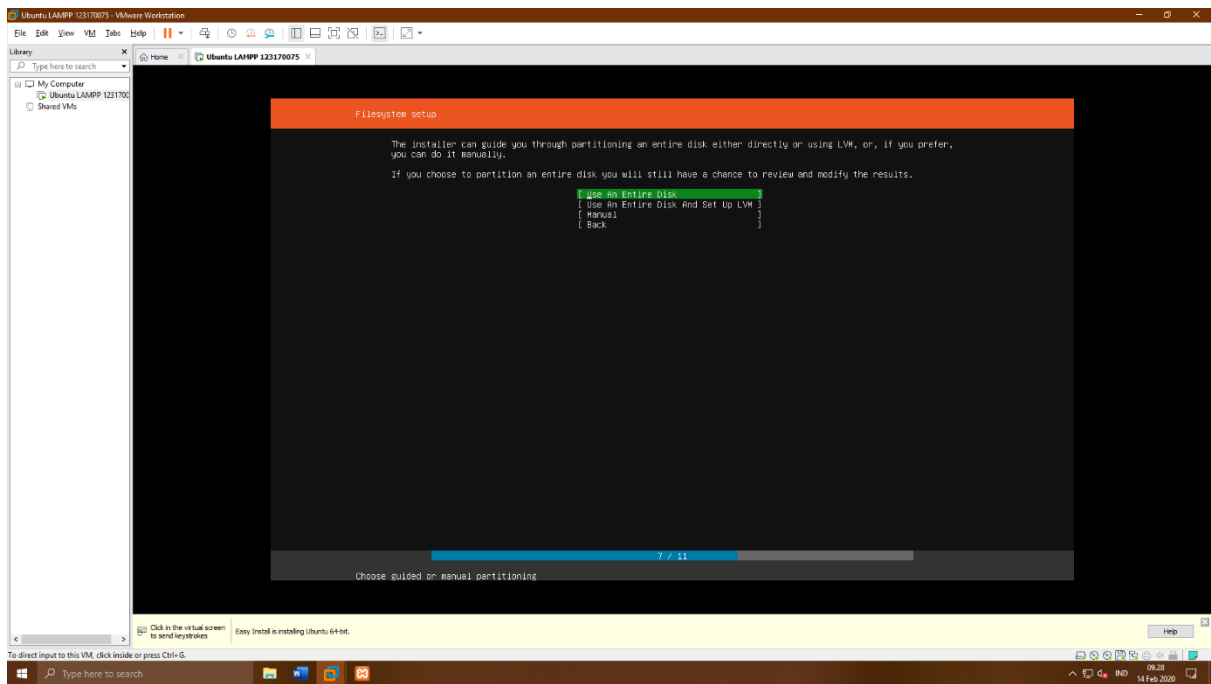


Lalu memilih bahasa

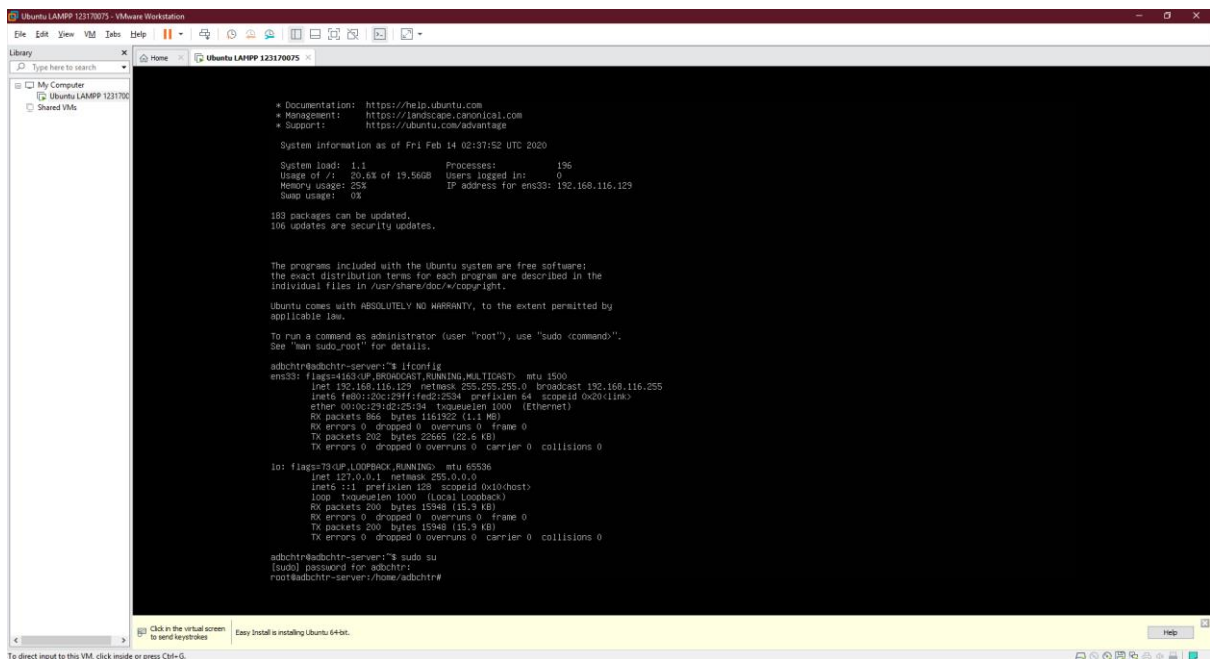
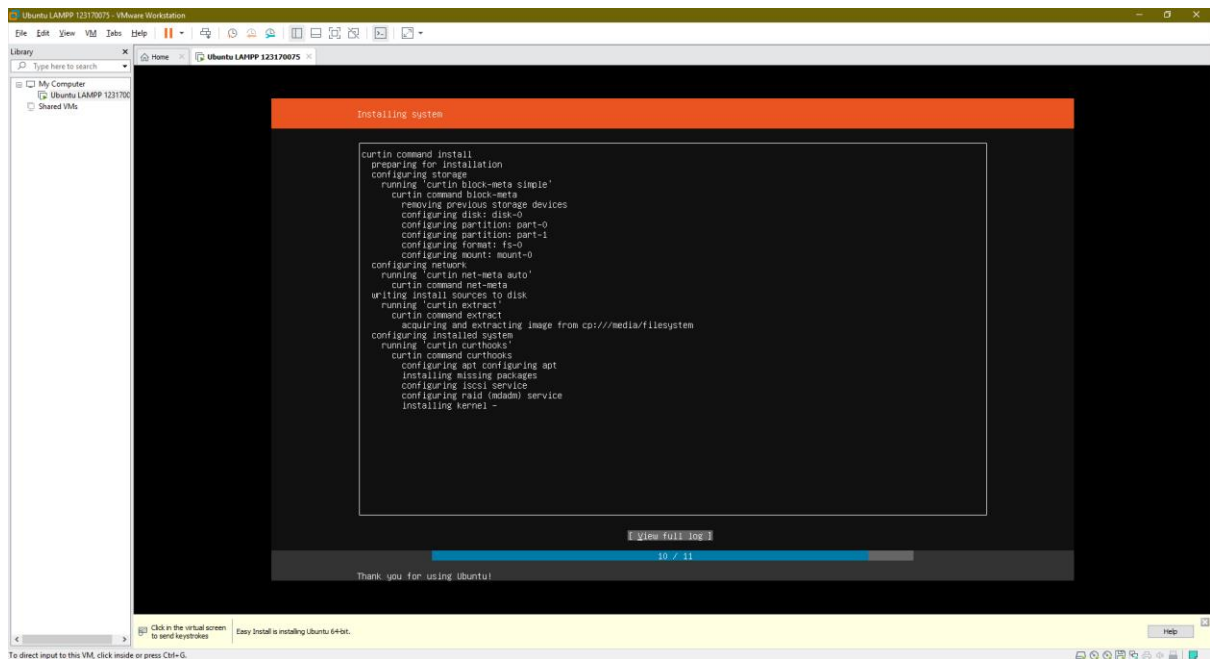




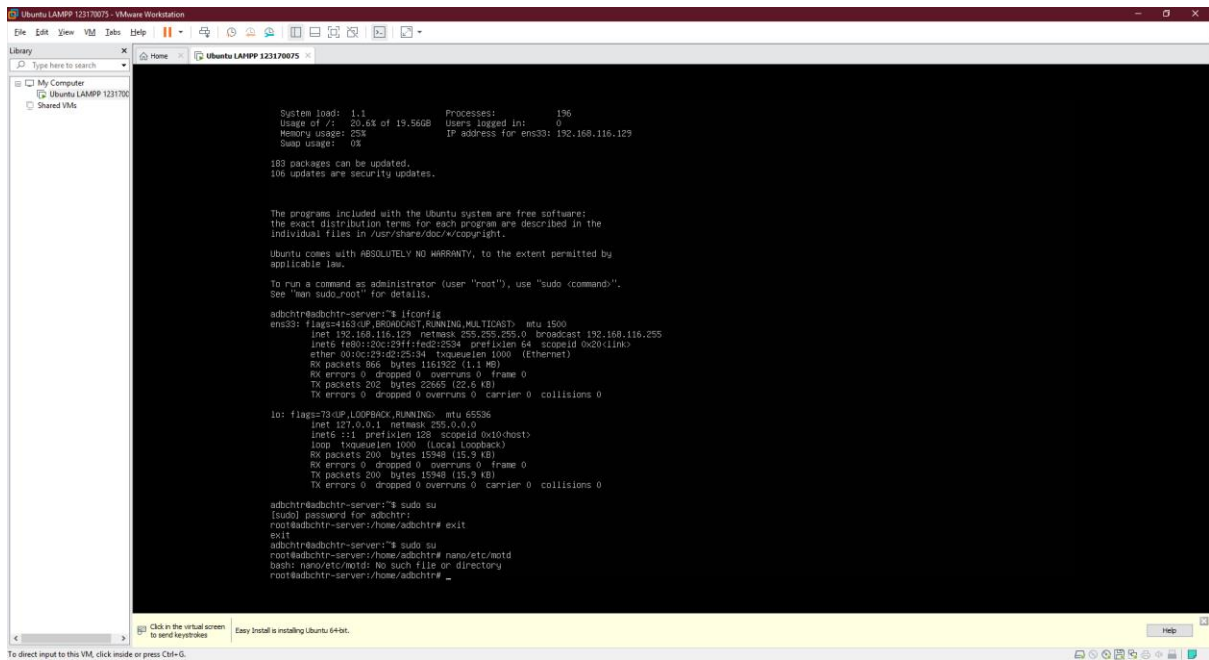








Ini adalah tampilan awal setelah login, jika ingin login sebagai administrator maka ketikkan “sudo su”  
Dan masukkan password..dan status berubah menjadi admin, jika ingin keluar maka ketikkan exit



The screenshot shows a terminal window within a VMware Workstation environment. The terminal displays system information such as system load, memory usage, and network configuration for the 'ens33' interface. It also shows the output of the 'ifconfig' command for 'lo' and 'ens33'. The user is currently in the 'root@adchtr-server' shell.

```
System load: 1.1          Processes: 196
Usage of /: 20.6% of 19.56GB    Users logged in: 0
Memory usage: 25%          IP address for ens33: 192.168.116.129
Swap usage: 0%

183 packages can be updated.
106 updates are security updates.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

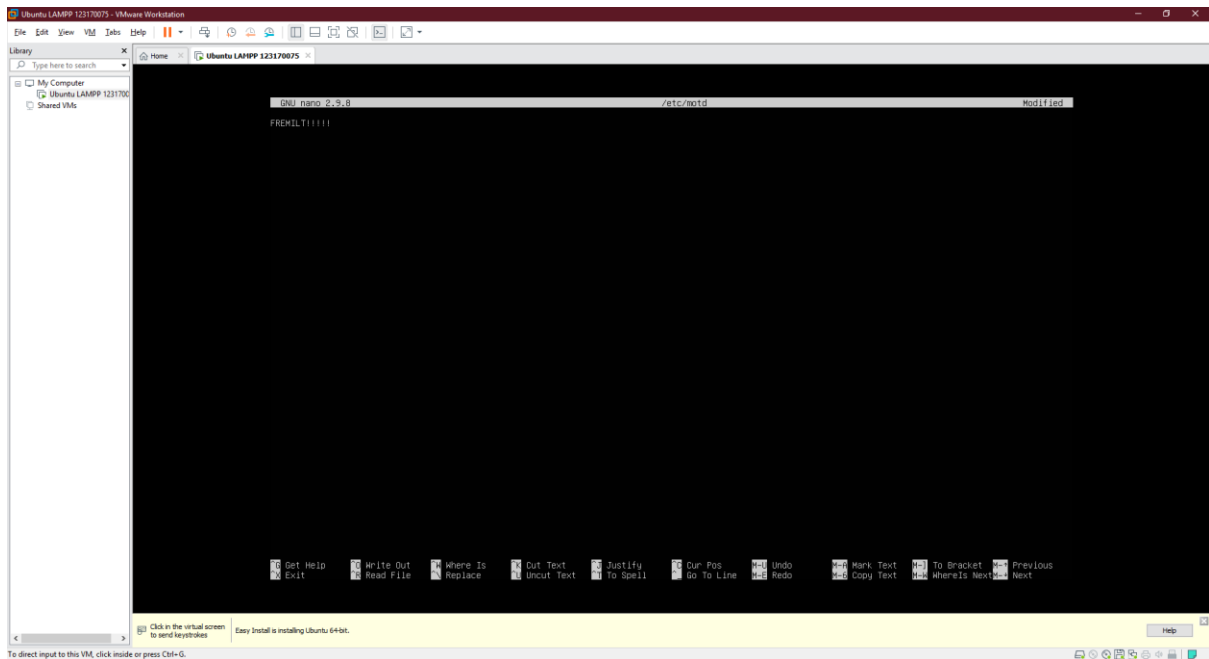
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo.root" for details.

adchtr@adchtr-server:~$ ifconfig
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
    inet 192.168.116.129 netmask 255.255.255.0 broadcast 192.168.116.255
    inet6 fe80::20c:291f:fe2b:2524 prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:1f:fe2b:2524 txqueuelen 1000  (Ethernet)
    RX packets 866 bytes 1161322 (1.1 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 202 bytes 22665 (22.6 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 200 bytes 15340 (15.3 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 200 bytes 15340 (15.3 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

adchtr@adchtr-server:~$ sudo su
[sudo] password for adchtr:
root@adchtr-server:/home/adchtr# exit
exit
adchtr@adchtr-server:~$ sudo su
root@adchtr-server:/home/adchtr# nano/etc/motd
bash: nano/etc/motd: No such file or directory
root@adchtr-server:/home/adchtr# _
```

Jika ingin mengakses notepad, maka ketikkan nano /etc/motd

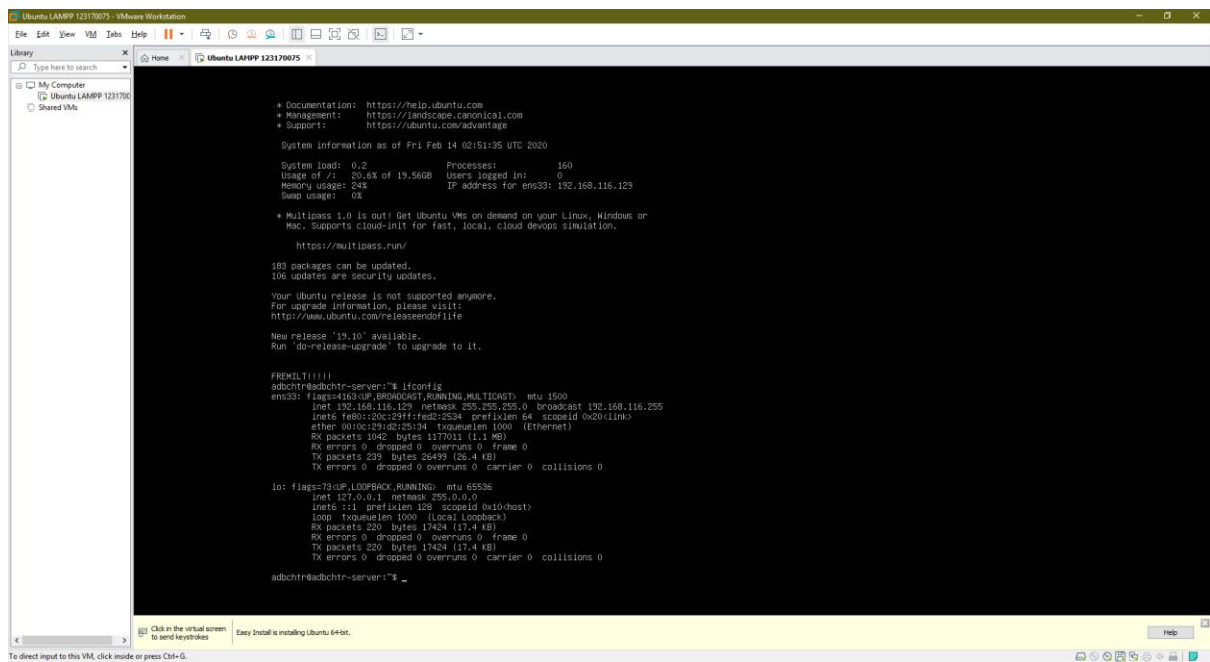


The screenshot shows the GNU nano 2.9.8 text editor in a terminal window. The editor is editing the file '/etc/motd'. The content of the file is 'FIREHILL!!!!'. The editor's status bar at the bottom shows various functions like Get Help, Write Out, Where Is, Cut Text, Justify, Cut Pos, Undo, Mark Text, To Bracket, Previous, Exit, Read File, Replace, Out Text, To Spell, Go To Line, Redo, Copy Text, Where Is Next, and Next.

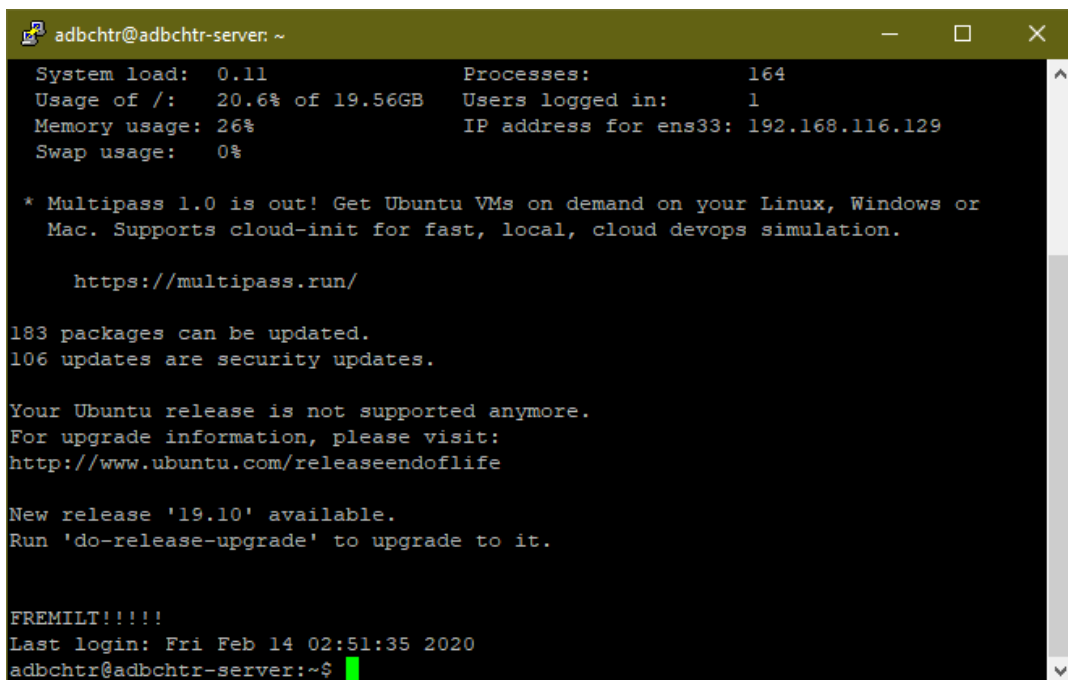
```
GNU nano 2.9.8 /etc/motd Modified
FIREHILL!!!!
```

Lalu bisa edit di GNU nano

1. CTRL + O = Simpan
2. CTRL + X = Exit



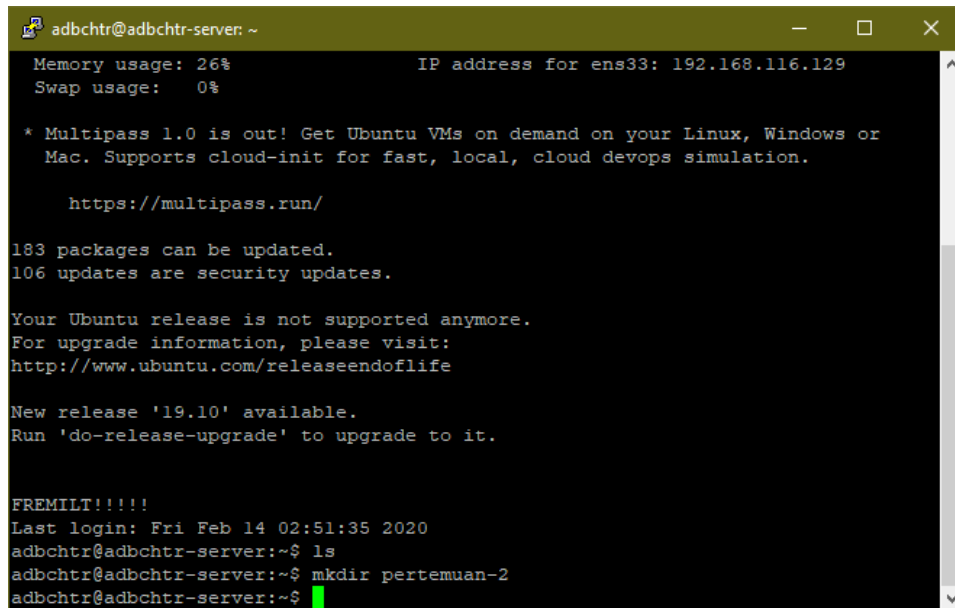
Untuk membuka IPCONFIG maka ketikkan IFCONFIG



Lalu buka Aplikasi PuTTY lalu masukkan user dan password yang tadi sudah didaftarkan

## LATIHAN

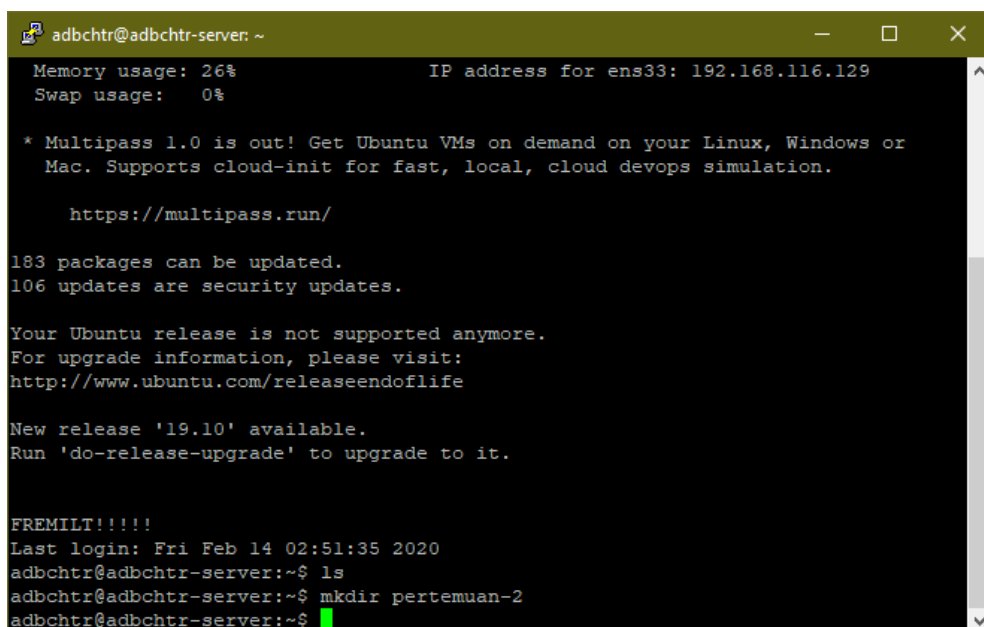
1.



```
adbchtr@adbchtr-server: ~  
Memory usage: 26%          IP address for ens33: 192.168.116.129  
Swap usage: 0%  
  
* Multipass 1.0 is out! Get Ubuntu VMs on demand on your Linux, Windows or  
Mac. Supports cloud-init for fast, local, cloud devops simulation.  
  
https://multipass.run/  
  
183 packages can be updated.  
106 updates are security updates.  
  
Your Ubuntu release is not supported anymore.  
For upgrade information, please visit:  
http://www.ubuntu.com/releaseendoflife  
  
New release '19.10' available.  
Run 'do-release-upgrade' to upgrade to it.  
  
FREMILT!!!!  
Last login: Fri Feb 14 02:51:35 2020  
adbchtr@adbchtr-server:~$ ls  
adbchtr@adbchtr-server:~$ mkdir pertemuan-2  
adbchtr@adbchtr-server:~$
```

Jika diketikkan ls maka tidak terjadi apapun

2.



```
adbchtr@adbchtr-server: ~  
Memory usage: 26%          IP address for ens33: 192.168.116.129  
Swap usage: 0%  
  
* Multipass 1.0 is out! Get Ubuntu VMs on demand on your Linux, Windows or  
Mac. Supports cloud-init for fast, local, cloud devops simulation.  
  
https://multipass.run/  
  
183 packages can be updated.  
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New release '19.10' available.  
Run 'do-release-upgrade' to upgrade to it.  
  
FREMILT!!!!  
Last login: Fri Feb 14 02:51:35 2020  
adbchtr@adbchtr-server:~$ ls  
adbchtr@adbchtr-server:~$ mkdir pertemuan-2  
adbchtr@adbchtr-server:~$
```

Jika diketikkan “mkdir pertemuan-2” maka tidak terjadi apapun

3.

```
adbchtr@adbchtr-server: ~
* Multipass 1.0 is out! Get Ubuntu VMs on demand on your Linux, Windows or
  Mac. Supports cloud-init for fast, local, cloud devops simulation.

  https://multipass.run/

183 packages can be updated.
106 updates are security updates.

Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife

New release '19.10' available.
Run 'do-release-upgrade' to upgrade to it.

FREMILT!!!!
Last login: Fri Feb 14 02:51:35 2020
adbchtr@adbchtr-server:~$ ls
adbchtr@adbchtr-server:~$ mkdir pertemuan-2
adbchtr@adbchtr-server:~$ ls -l
total 4
drwxrwxr-x 2 adbchtr adbchtr 4096 Feb 14 02:58 pertemuan-2
adbchtr@adbchtr-server:~$
```

Setelah diketikkan “ls -l” maka akan menampilkan hasil directory yang dibuat dengan nama pertemuan-2 dengan menampilkan total dan informasi tentang pembuatan directory tersebut

4.

```
adbchtr@adbchtr-server: ~
  Mac. Supports cloud-init for fast, local, cloud devops simulation.

  https://multipass.run/

183 packages can be updated.
106 updates are security updates.

Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife

New release '19.10' available.
Run 'do-release-upgrade' to upgrade to it.

FREMILT!!!!
Last login: Fri Feb 14 02:51:35 2020
adbchtr@adbchtr-server:~$ ls
adbchtr@adbchtr-server:~$ mkdir pertemuan-2
adbchtr@adbchtr-server:~$ ls -l
total 4
drwxrwxr-x 2 adbchtr adbchtr 4096 Feb 14 02:58 pertemuan-2
adbchtr@adbchtr-server:~$ cp -r pertemuan-2 pertemuan-1
adbchtr@adbchtr-server:~$
```

Dengan mengetikkan “cp -r di file pertemuan-2 pertemuan-1” maka akan membuat project baru di pertemuan-2



5.

```
adbchtr@adbchtr-server: ~  
https://multipass.run/  
  
183 packages can be updated.  
106 updates are security updates.  
  
Your Ubuntu release is not supported anymore.  
For upgrade information, please visit:  
http://www.ubuntu.com/releaseendoflife  
  
New release '19.10' available.  
Run 'do-release-upgrade' to upgrade to it.  
  
FREMILT!!!!  
Last login: Fri Feb 14 02:51:35 2020  
adbchtr@adbchtr-server:~$ ls  
adbchtr@adbchtr-server:~$ mkdir pertemuan-2  
adbchtr@adbchtr-server:~$ ls -l  
total 4  
drwxrwxr-x 2 adbchtr adbchtr 4096 Feb 14 02:58 pertemuan-2  
adbchtr@adbchtr-server:~$ cp -r pertemuan-2 pertemuan-1  
adbchtr@adbchtr-server:~$ ls  
pertemuan-1  pertemuan-2  
adbchtr@adbchtr-server:~$
```

Jika diketikkan “ls” maka akan menampilkan directory yang sudah ada

6.

```
adbchtr@adbchtr-server: ~  
183 packages can be updated.  
106 updates are security updates.  
  
Your Ubuntu release is not supported anymore.  
For upgrade information, please visit:  
http://www.ubuntu.com/releaseendoflife  
  
New release '19.10' available.  
Run 'do-release-upgrade' to upgrade to it.  
  
FREMILT!!!!  
Last login: Fri Feb 14 02:51:35 2020  
adbchtr@adbchtr-server:~$ ls  
adbchtr@adbchtr-server:~$ mkdir pertemuan-2  
adbchtr@adbchtr-server:~$ ls -l  
total 4  
drwxrwxr-x 2 adbchtr adbchtr 4096 Feb 14 02:58 pertemuan-2  
adbchtr@adbchtr-server:~$ cp -r pertemuan-2 pertemuan-1  
adbchtr@adbchtr-server:~$ ls  
pertemuan-1  pertemuan-2  
adbchtr@adbchtr-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"  
adbchtr@adbchtr-server:~$
```

Jika diketikkan “mv pertemuan-2 “pertemuan 2 LAMPP” ” maka tidak terjadi apapun di layar

7.

```
adbchtr@adbchtr-server: ~  
New release '19.10' available.  
Run 'do-release-upgrade' to upgrade to it.  
  
FREMILT!!!!  
Last login: Fri Feb 14 02:51:35 2020  
adbchtr@adbchtr-server:~$ ls  
adbchtr@adbchtr-server:~$ mkdir pertemuan-2  
adbchtr@adbchtr-server:~$ ls -l  
total 4  
drwxrwxr-x 2 adbchtr adbchtr 4096 Feb 14 02:58 pertemuan-2  
adbchtr@adbchtr-server:~$ cp -r pertemuan-2 pertemuan-1  
adbchtr@adbchtr-server:~$ ls  
pertemuan-1  pertemuan-2  
adbchtr@adbchtr-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"  
adbchtr@adbchtr-server:~$ LS  
  
Command 'LS' not found, but can be installed with:  
  
sudo apt install sl  
  
adbchtr@adbchtr-server:~$ ls  
pertemuan-1  'pertemuan 2 LAMPP'  
adbchtr@adbchtr-server:~$
```

Jika diketikkan ls maka akan terlihat kalau kita membuat file baru bernama “pertemuan 2 LAMPP”

8.

```
adbchtr@adbchtr-server: ~/pertemuan 2 LAMPP  
Run 'do-release-upgrade' to upgrade to it.  
  
FREMILT!!!!  
Last login: Fri Feb 14 02:51:35 2020  
adbchtr@adbchtr-server:~$ ls  
adbchtr@adbchtr-server:~$ mkdir pertemuan-2  
adbchtr@adbchtr-server:~$ ls -l  
total 4  
drwxrwxr-x 2 adbchtr adbchtr 4096 Feb 14 02:58 pertemuan-2  
adbchtr@adbchtr-server:~$ cp -r pertemuan-2 pertemuan-1  
adbchtr@adbchtr-server:~$ ls  
pertemuan-1  pertemuan-2  
adbchtr@adbchtr-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"  
adbchtr@adbchtr-server:~$ LS  
  
Command 'LS' not found, but can be installed with:  
  
sudo apt install sl  
  
adbchtr@adbchtr-server:~$ ls  
pertemuan-1  'pertemuan 2 LAMPP'  
adbchtr@adbchtr-server:~$ cd pertemuan\ 2\ LAMPP/  
adbchtr@adbchtr-server:~/pertemuan 2 LAMPP$
```

Jika diketikkan “cd pertemuan 2” lalu tekan tab dan enter maka akan change directory ke pertemuan 2 LAMPP

9.

Jika diketikkan “nano biodata” maka akan tampil notepad GNU NANO

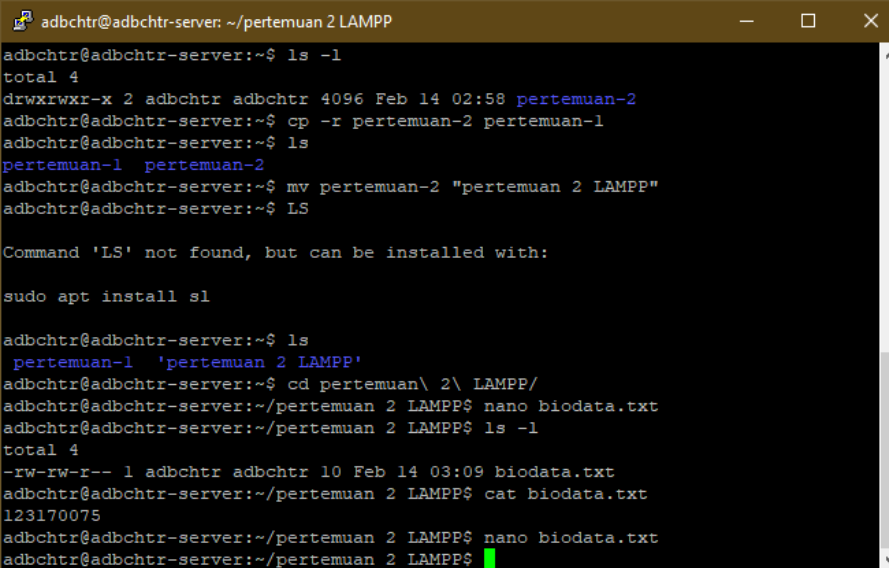
10.

Jika Diketikkan “ls -l” maka akan tampil informasi isi dari folder yaitu biodata.txt

11.

Jika Diketikkan “cat biodata.txt” maka akan tampil isi dari biodata.txt

12.

A terminal window titled 'adbchtr@adbchtr-server: ~/pertemuan 2 LAMPP'. The terminal shows a series of commands and their outputs. The user runs 'ls -l', showing a directory 'pertemuan-2'. Then they run 'cp -r pertemuan-2 pertemuan-1'. Next, they run 'ls', showing both 'pertemuan-1' and 'pertemuan-2'. Then they run 'mv pertemuan-2 "pertemuan 2 LAMPP"'. After that, they run 'LS', which results in an error message: 'Command 'LS' not found, but can be installed with: sudo apt install sl'. The user then runs 'ls', showing 'pertemuan-1' and 'pertemuan 2 LAMPP'. They then run 'cd pertemuan\ 2\ LAMPP/'. Next, they run 'nano biodata.txt'. Then they run 'ls -l', showing a file 'biodata.txt' with permissions '-rw-rw-r--', owner 'adbchtr', group 'adbchtr', size '10', date 'Feb 14 03:09', and filename 'biodata.txt'. Then they run 'cat biodata.txt', which outputs '123170075'. Finally, they run 'nano biodata.txt' again, and the terminal shows a green cursor at the end of the line.

```
adbchtr@adbchtr-server: ~/pertemuan 2 LAMPP
adbchtr@adbchtr-server:~$ ls -l
total 4
drwxrwxr-x 2 adbchtr adbchtr 4096 Feb 14 02:58 pertemuan-2
adbchtr@adbchtr-server:~$ cp -r pertemuan-2 pertemuan-1
adbchtr@adbchtr-server:~$ ls
pertemuan-1  pertemuan-2
adbchtr@adbchtr-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
adbchtr@adbchtr-server:~$ LS
Command 'LS' not found, but can be installed with:
sudo apt install sl
adbchtr@adbchtr-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
adbchtr@adbchtr-server:~$ cd pertemuan\ 2\ LAMPP/
adbchtr@adbchtr-server:~/pertemuan 2 LAMPP$ nano biodata.txt
adbchtr@adbchtr-server:~/pertemuan 2 LAMPP$ ls -l
total 4
-rw-rw-r-- 1 adbchtr adbchtr 10 Feb 14 03:09 biodata.txt
adbchtr@adbchtr-server:~/pertemuan 2 LAMPP$ cat biodata.txt
123170075
adbchtr@adbchtr-server:~/pertemuan 2 LAMPP$ nano biodata.txt
adbchtr@adbchtr-server:~/pertemuan 2 LAMPP$
```

Jika diketikkan “nano biodata.txt” maka akan kembali terbuka GNU NANO yang berisi NIM

13.

```
adbchtr@adbchtr-server: ~/pertemuan 2 LAMPP
adbchtr@adbchtr-server:~/pertemuan 2 LAMPP$ nano biodata.txt
adbchtr@adbchtr-server:~/pertemuan 2 LAMPP$ cat biodata.txt
123170075
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
adbchtr@adbchtr-server:~/pertemuan 2 LAMPP$
```

Jika diketikkan “cat biodata.txt” maka akan tampil isi dari biodata.txt

14.

```
adbchtr@adbchtr-server: ~/pertemuan 2 LAMPP
9
10
11
12
13
14
15
16
17
18
19
20
adbchtr@adbchtr-server:~/pertemuan 2 LAMPP$ tail biodata.txt
11
12
13
14
15
16
17
18
19
20
adbchtr@adbchtr-server:~/pertemuan 2 LAMPP$
```

Dan jika diketikkan tail “biodata.txt” maka akan tampil 10 baris yang dipisahkan