

Nama : Naufal Afkar Alabuya

NIM : 123170054

Kelas : Prak TCC Plug C

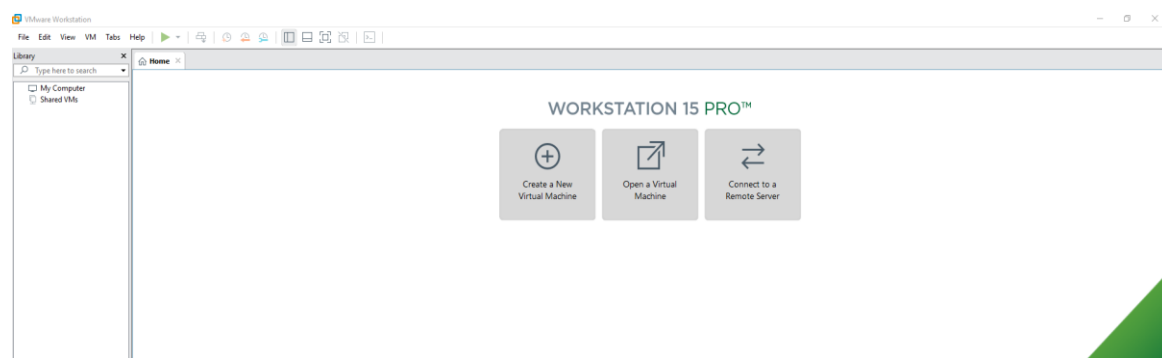
Pertemuan 2

(Pengenalan VMWare Workstation dan Linux OS)

Membuat layanan hosting (SaaS) berdasarkan Private Cloud

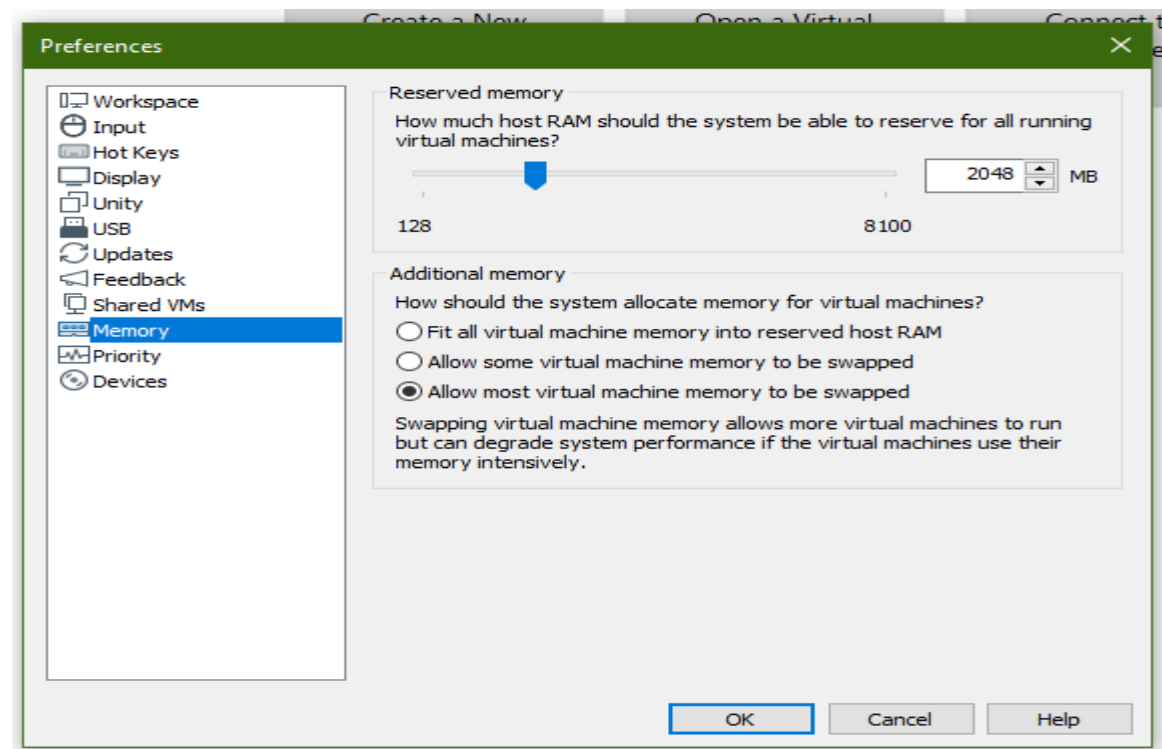
Conceptual Application : Virtual OS – Aplikasi VMWare Workstation -- OS Pc – Hardware fisik pada komputer Lab.

Aplikasi VMWare Workstation : Digunakan utk virtualisasi sitem operasi.

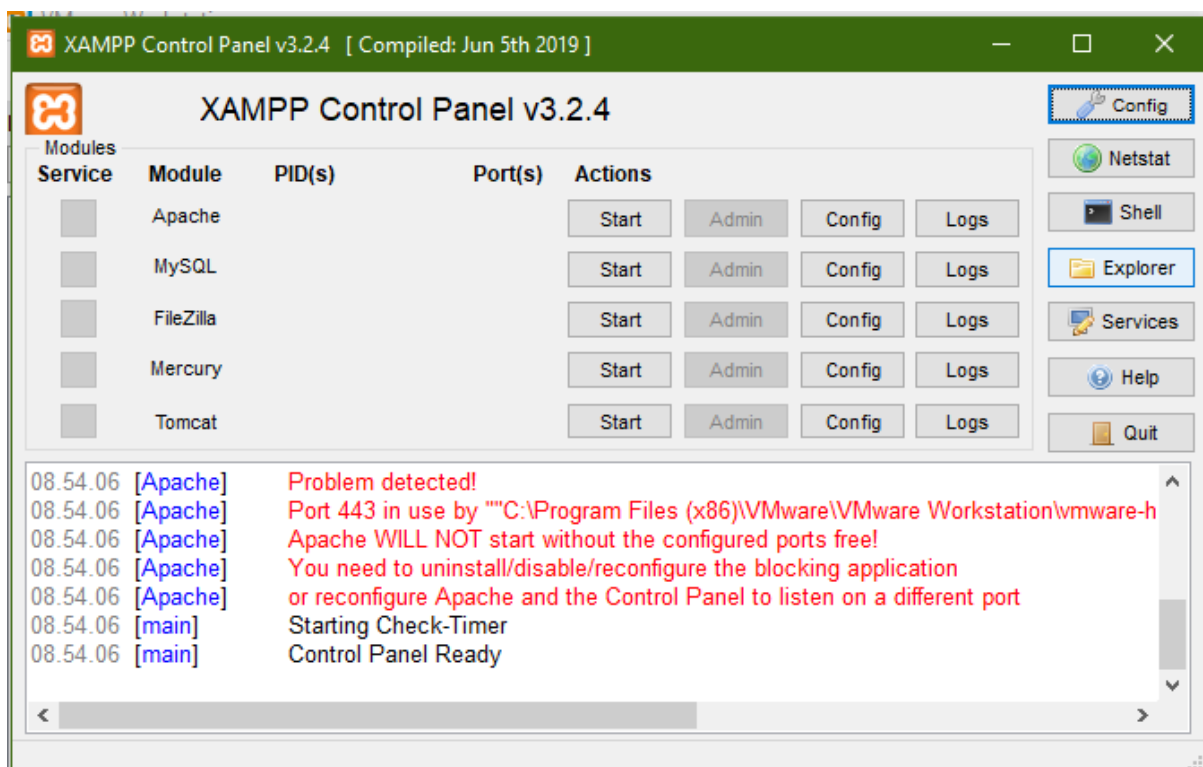
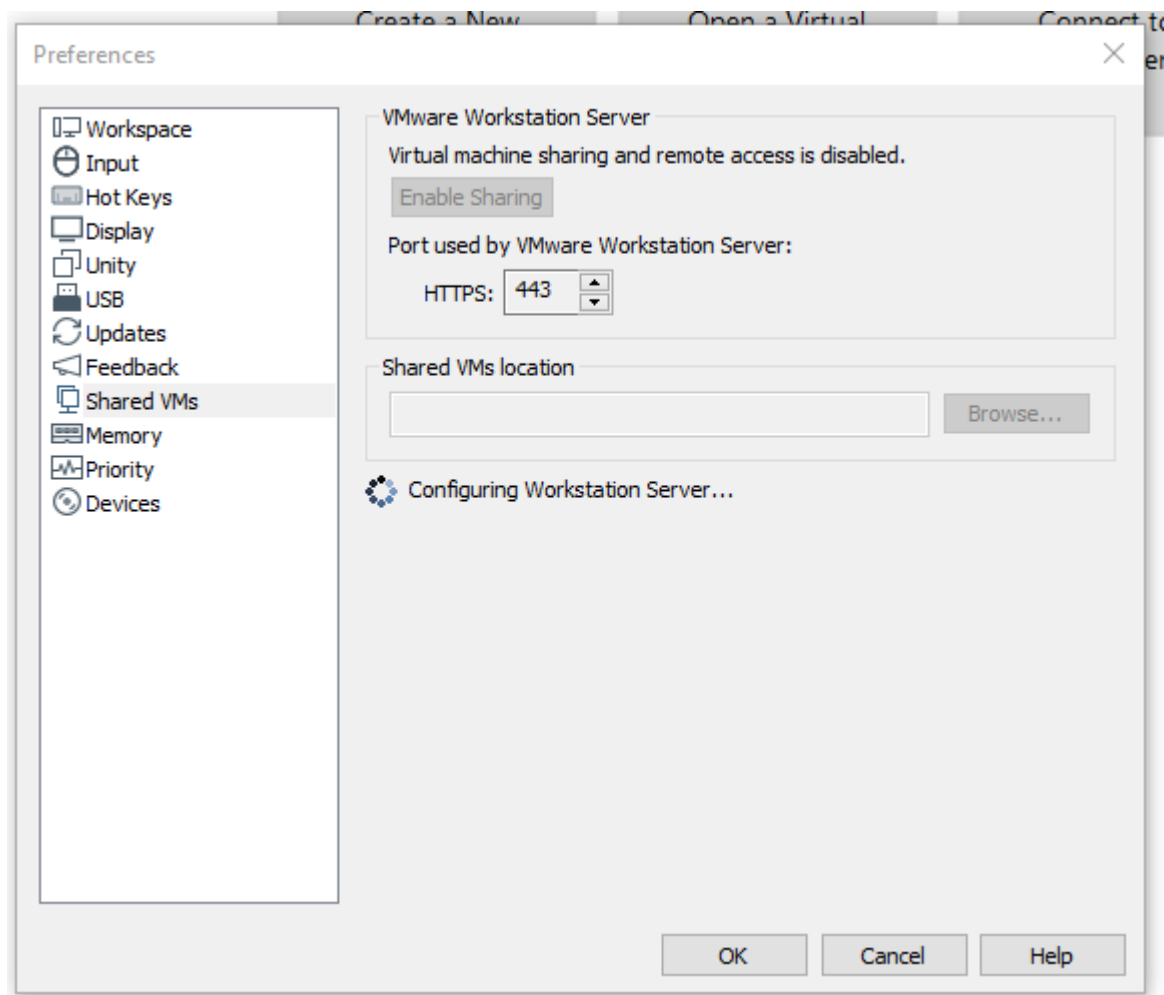


Cara Mengatasi

Swapping

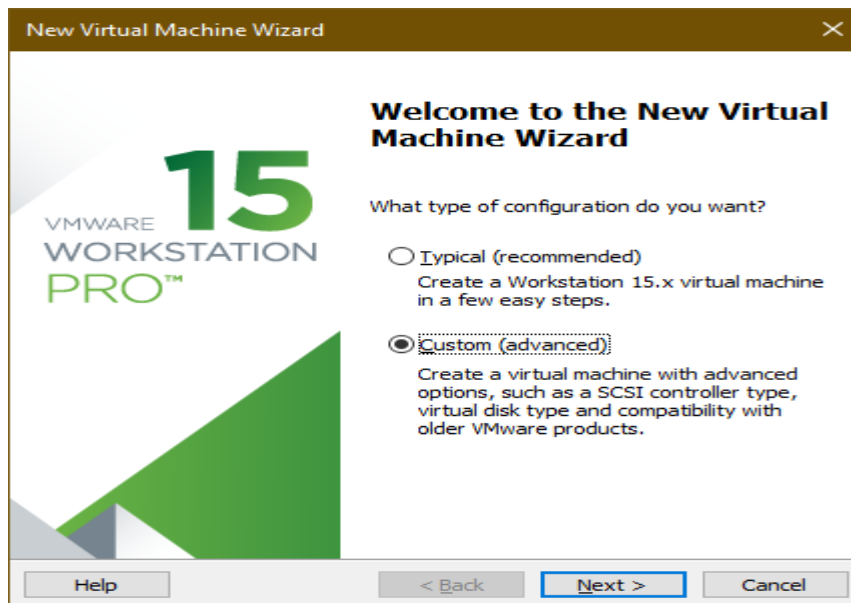


Disable Sharing

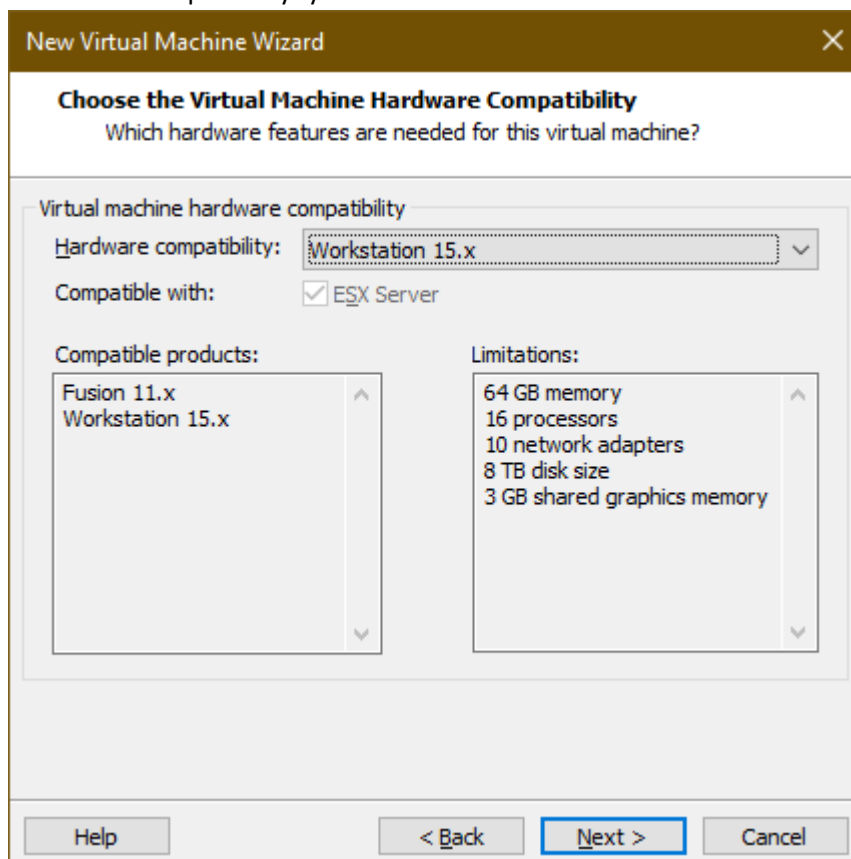


Cara buat VM Baru

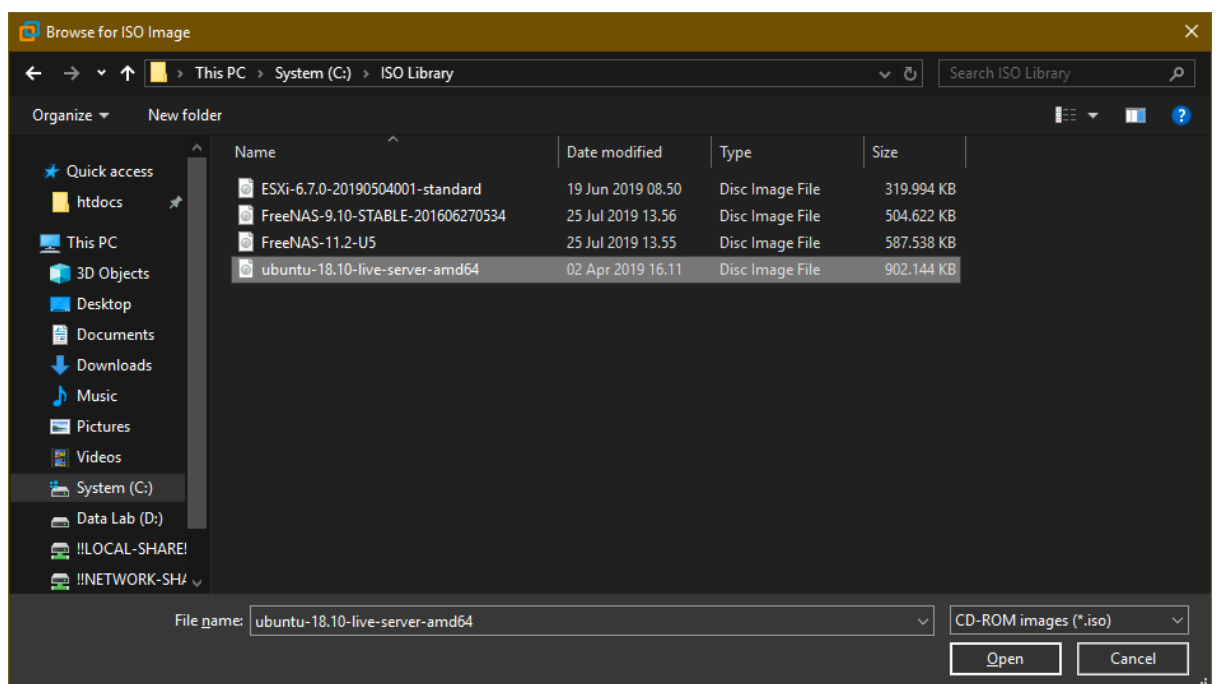
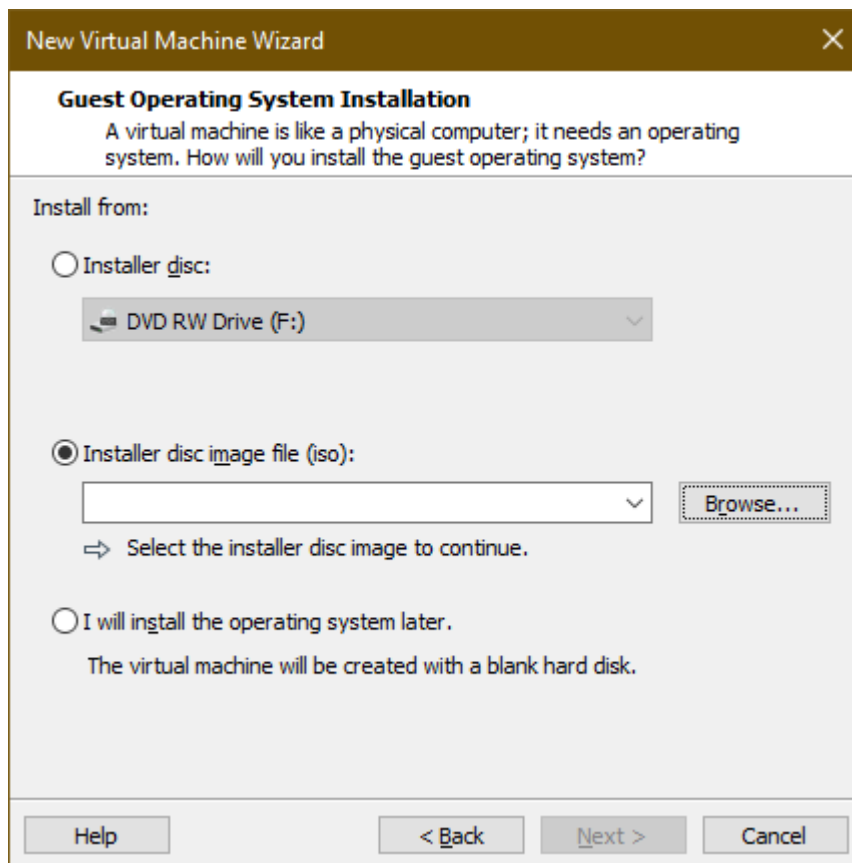
1. Cari OS terlebih dahulu(SystemC/ISOLibrary)
2. Create New Virtual
3. Pilih Custom



4. Pilih Compatibility,disesuaikan dengan kemampuan OS ex kalau OS lama diturunkan Hardware Compatibilitynya



5. Hhh



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

New Virtual Machine Wizard

Easy Install Information

This is used to install Ubuntu 64-bit.

Personalize Linux

Full name: Naufal Af

User name: Naufal

Password: ●●●●●●

Confirm: ●●●●●●

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

Bisa diakses semua ,NAT yang bisa Cuma yang buat, VM akan diisolai, Gabisa konek ke jaringan

The image shows a screenshot of the 'New Virtual Machine Wizard' dialog box, specifically the 'Select I/O Controller Types' step. The title bar of the window is dark brown with the text 'New Virtual Machine Wizard' and a close button (X) on the right. Below the title bar, the main content area has a white background. At the top of this area, the text 'Select I/O Controller Types' is displayed in bold, followed by the question 'Which SCSI controller type would you like to use?'. Below this, there is a section titled 'I/O controller types' which contains a sub-section 'SCSI Controller:'. Under 'SCSI Controller:', there are three radio button options: 'BusLogic (Not available for 64-bit guests)', 'LSI Logic (Recommended)', and 'LSI Logic SAS'. The 'LSI Logic' option is selected, indicated by a filled radio button. At the bottom of the dialog box, there are four buttons: 'Help', '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

New Virtual Machine Wizard

Select I/O Controller Types
Which SCSI controller type would you like to use?

I/O controller types

SCSI Controller:

☐ BusLogic (Not available for 64-bit guests)

☒ LSI Logic (Recommended)

☐ LSI Logic SAS

Help < Back Next > Cancel

New Virtual Machine Wizard

Select a Disk Type
What kind of disk do you want to create?

Virtual disk type

☐ IDE

☒ SCSI (Recommended)

☐ SATA

☐ NVMe

Help < Back Next > Cancel

Disesuaikan OS yang akan diinstal, Karena Pakai Ubuntu pilih yang SCSI

New Virtual Machine Wizard

Select a Disk
Which disk do you want to use?

Disk

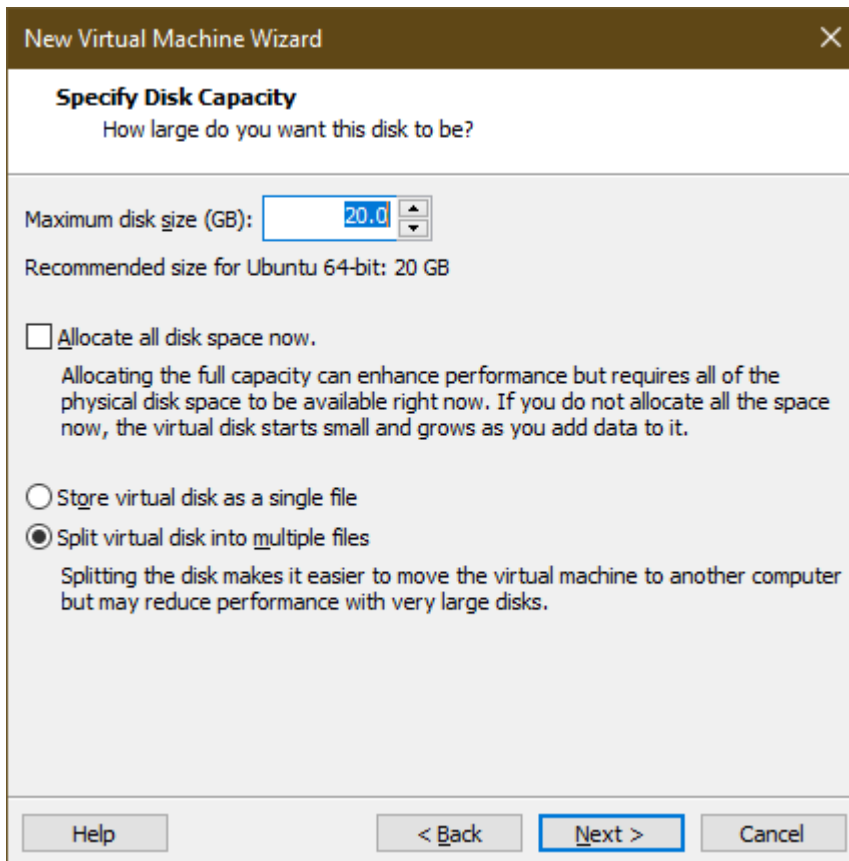
☒ Create a new virtual disk
A virtual disk is composed of one or more files on the host file system, which will appear as a single hard disk to the guest operating system. Virtual disks can easily be copied or moved on the same host or between hosts.

☐ Use an existing virtual disk
Choose this option to reuse a previously configured disk.

☐ Use a physical disk (for advanced users)
Choose this option to give the virtual machine direct access to a local hard disk. Requires administrator privileges.

Help < Back Next > Cancel

Karena belum pernah buat pilih yang paling atas.



The screenshot shows the 'New Virtual Machine Wizard' window, specifically the 'Specify Disk Capacity' step. The window has a title bar with the text 'New Virtual Machine Wizard' and a close button. The main content area is titled 'Specify Disk Capacity' and asks 'How large do you want this disk to be?'. It features a 'Maximum disk size (GB):' input field with a value of '20.0' and a spin button. Below this, it states 'Recommended size for Ubuntu 64-bit: 20 GB'. There are two radio button options: 'Allocate all disk space now.' (which is unchecked) and 'Split virtual disk into multiple files' (which is selected). A descriptive text for the selected option states: 'Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.' At the bottom of the window, there are three buttons: 'Help', '< Back', and 'Next >', with the 'Next >' button being highlighted. A 'Cancel' button is also present.

New Virtual Machine Wizard

Specify Disk Capacity
How large do you want this disk to be?

Maximum disk size (GB):

Recommended size for Ubuntu 64-bit: 20 GB

☐ Allocate all disk space now.
Allocating the full capacity can enhance performance but requires all of the physical disk space to be available right now. If you do not allocate all the space now, the virtual disk starts small and grows as you add data to it.

☐ Store virtual disk as a single file

☒ Split virtual disk into multiple files
Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.

Help < Back Next > Cancel

Semisal memiliki penyimpanan yang besar maka pilih yang atas, guna memudahkan pilih yang bawah(multiple)

New Virtual Machine Wizard

Specify Disk File
Where would you like to store the disk file?

Disk file
A 20 GB virtual disk be created using multiple disk files. The disk files will be automatically named based on this file name.

Ubuntu 64-bit.vmdk

Browse...

Help < Back Next > Cancel

Konfirmasi Nama Penyimpanan

New Virtual Machine Wizard

Ready to Create Virtual Machine
Click Finish to create the virtual machine and start installing Ubuntu 64-bit and then VMware Tools.

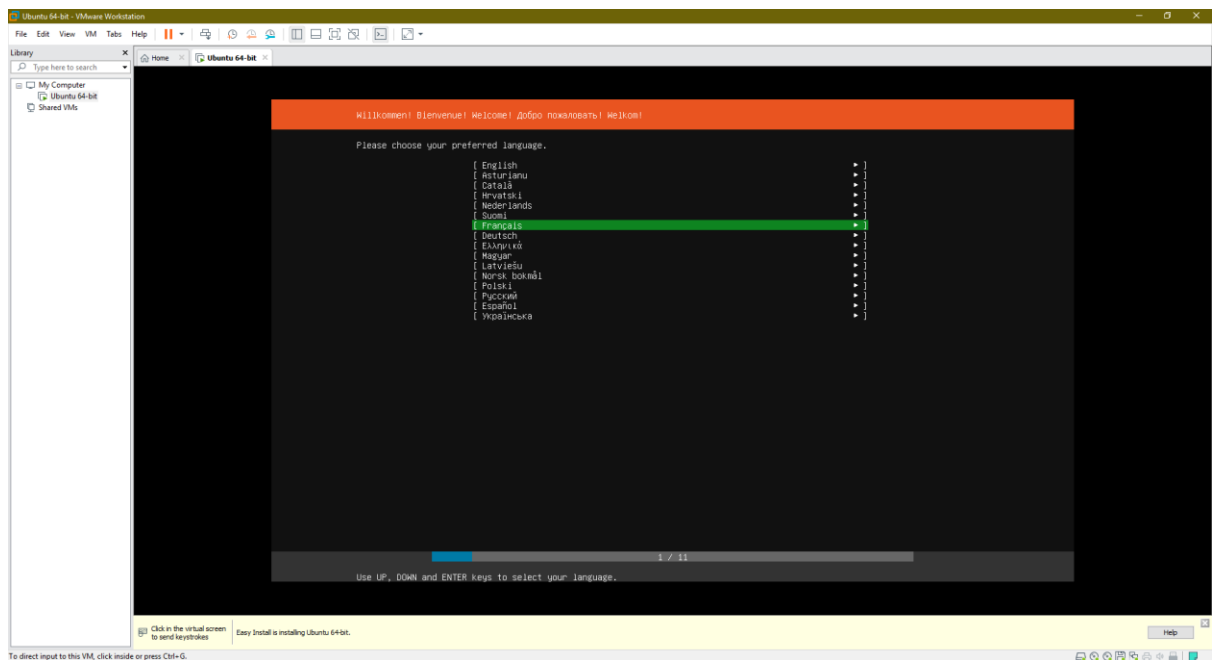
The virtual machine will be created with the following settings:

Name:	Ubuntu 64-bit
Location:	D:\VM_123170054\New folder
Version:	Workstation 15.x
Operating System:	Ubuntu 64-bit
Hard Disk:	20 GB, Split
Memory:	1024 MB
Network Adapter:	NAT
Other Devices:	2 CPU cores, CD/DVD, USB Controller, Printer, Sound...

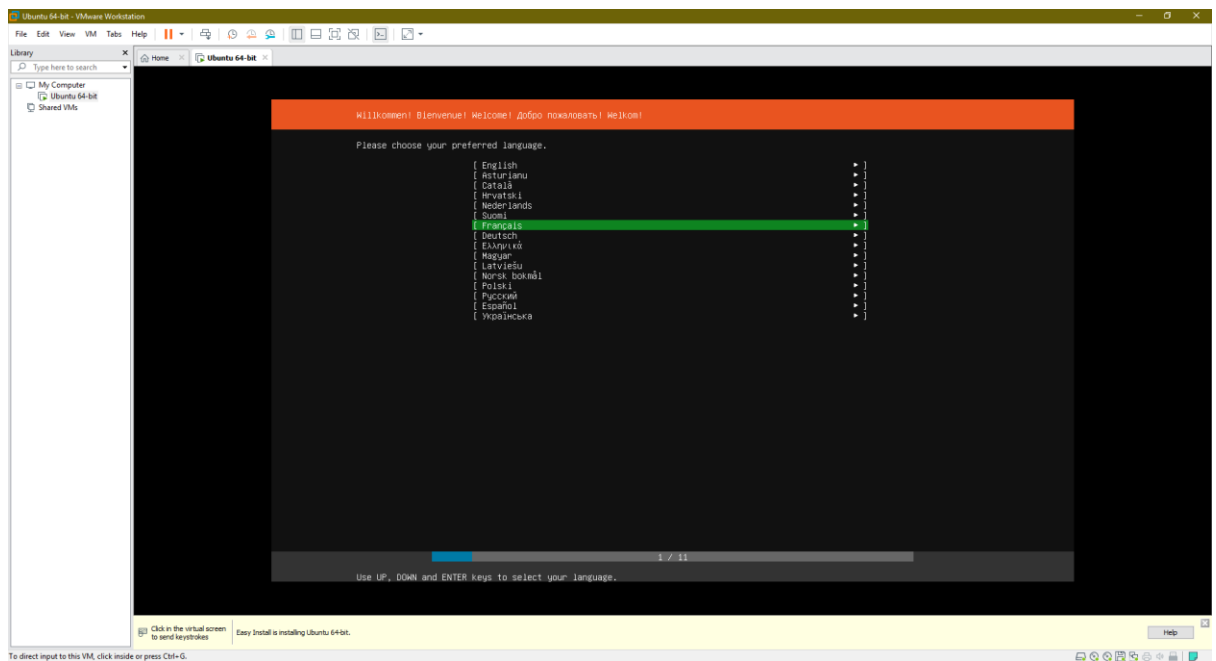
Customize Hardware...

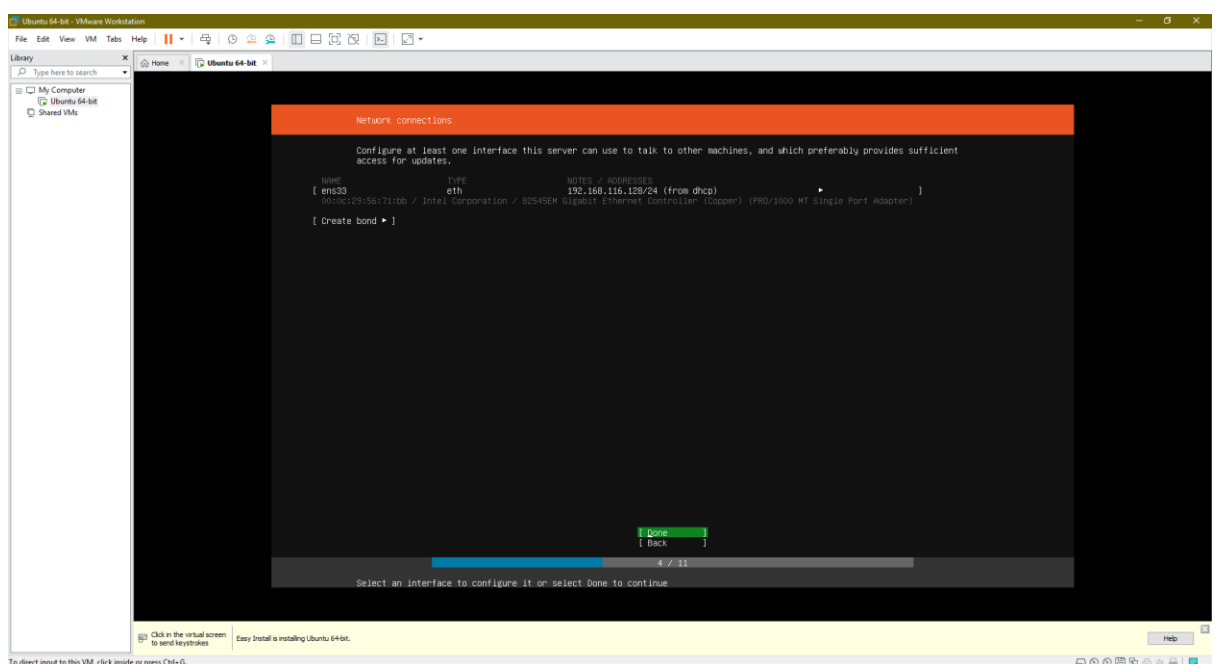
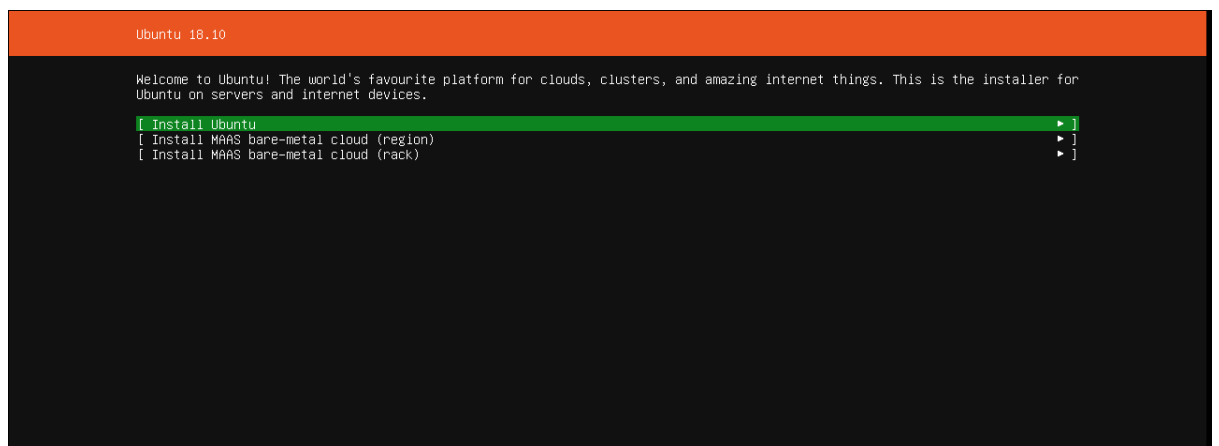
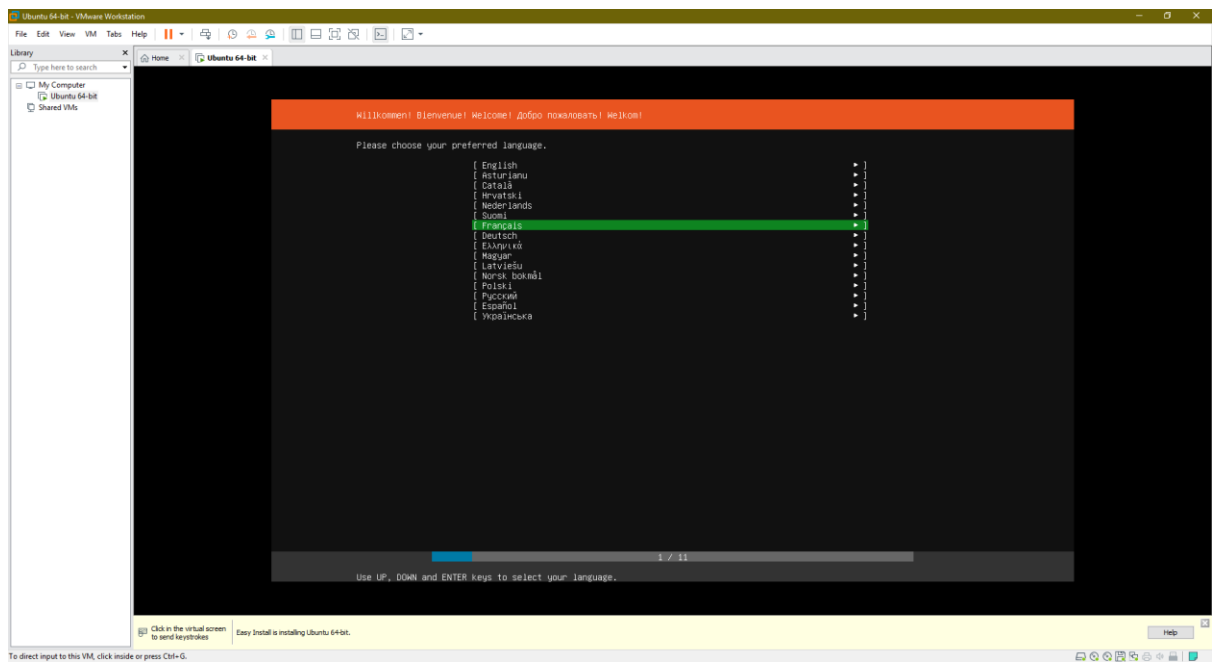
☒ Power on this virtual machine after creation

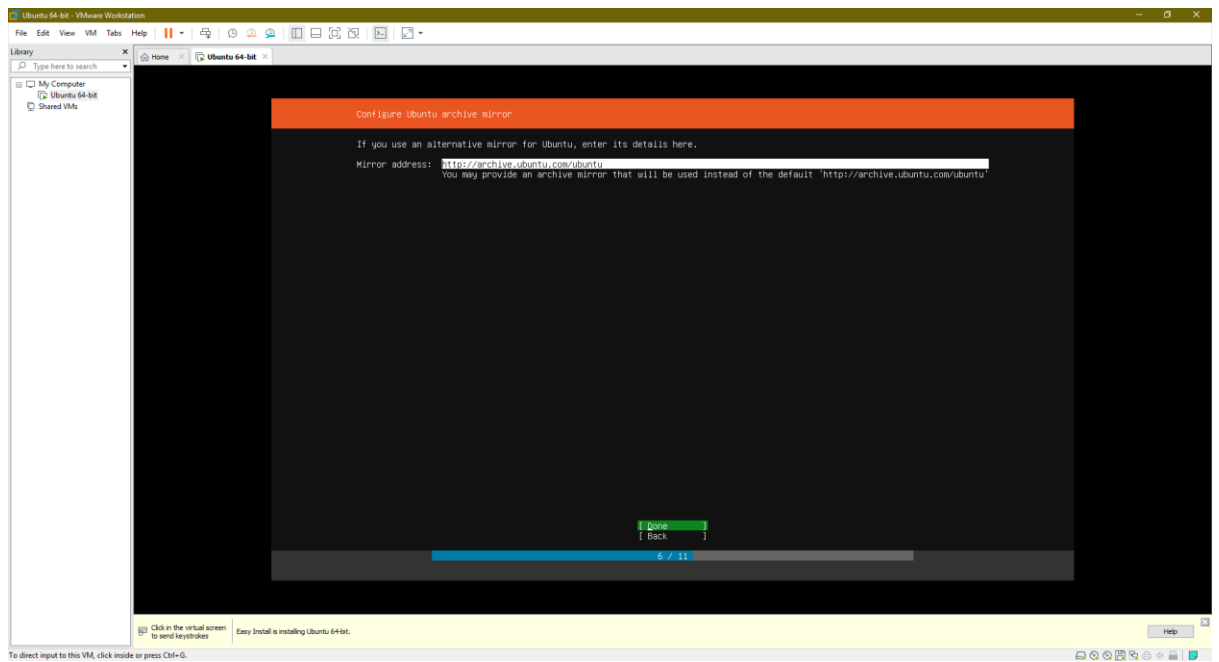
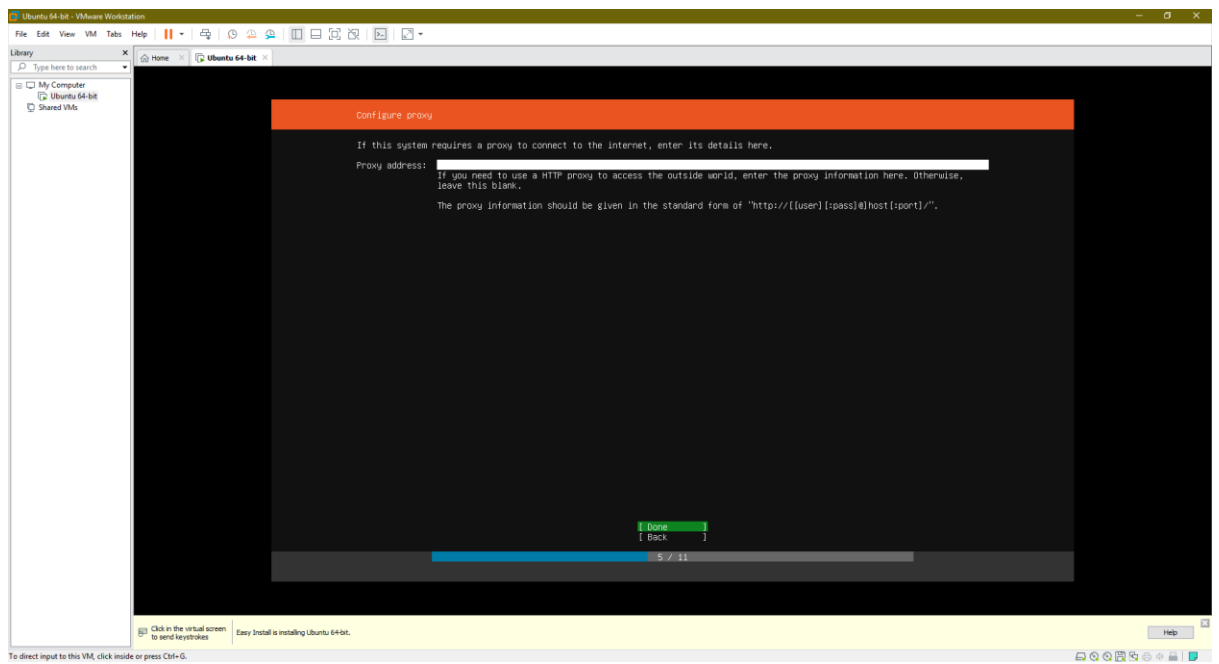
< Back Finish Cancel

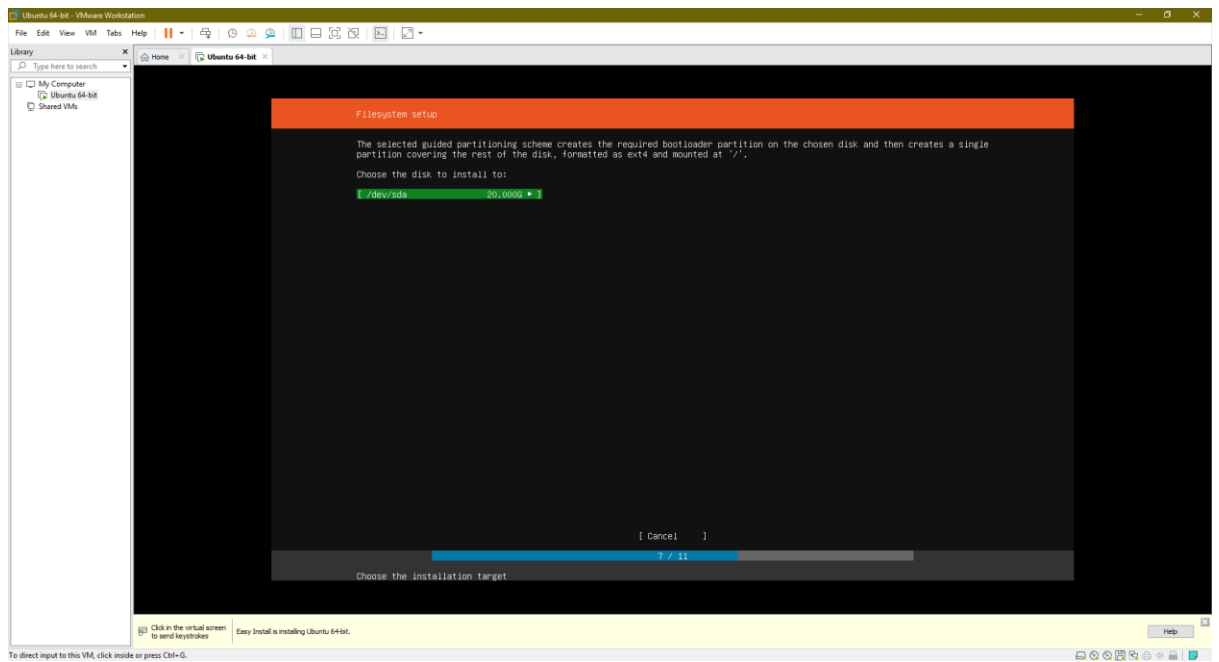
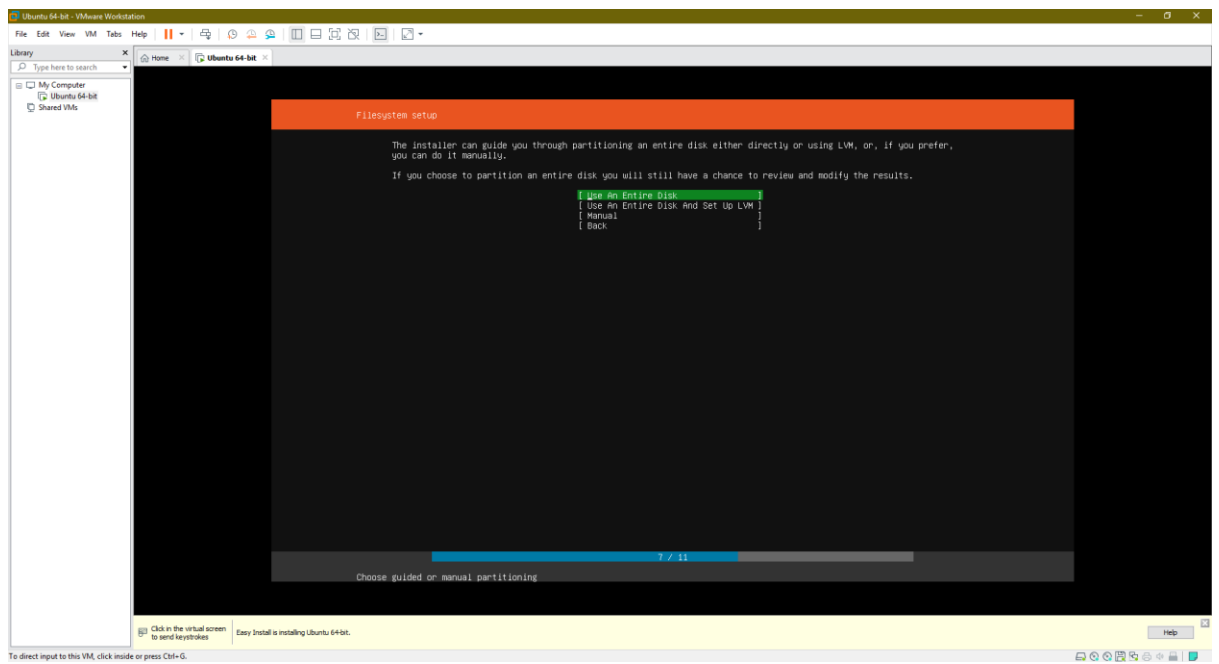


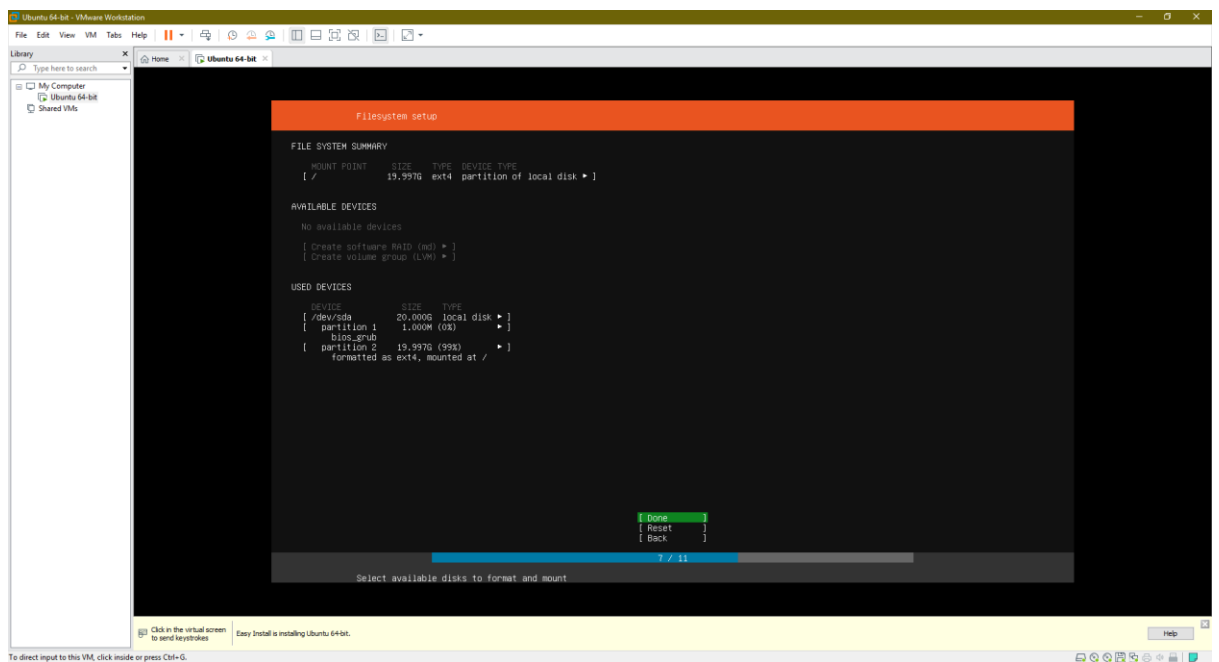
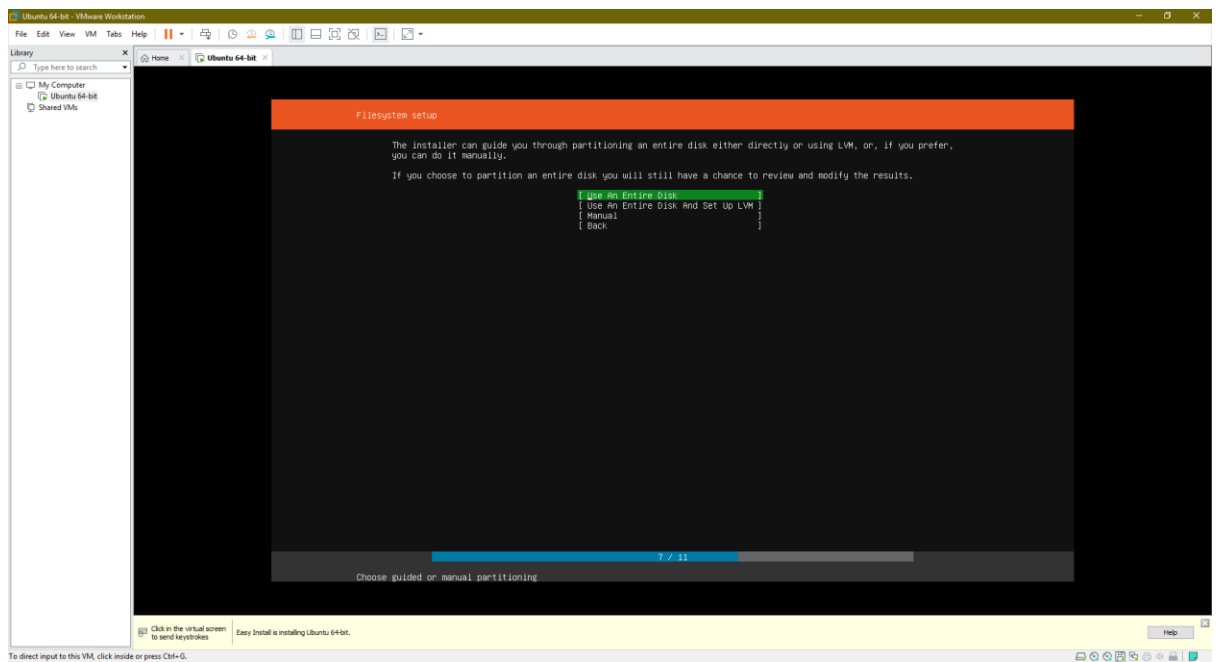
CTRL+G biar bisa berinteraksi dengan VM atau dengan diklik di VMnya. CTRL+ALT buat kembali ke Windows





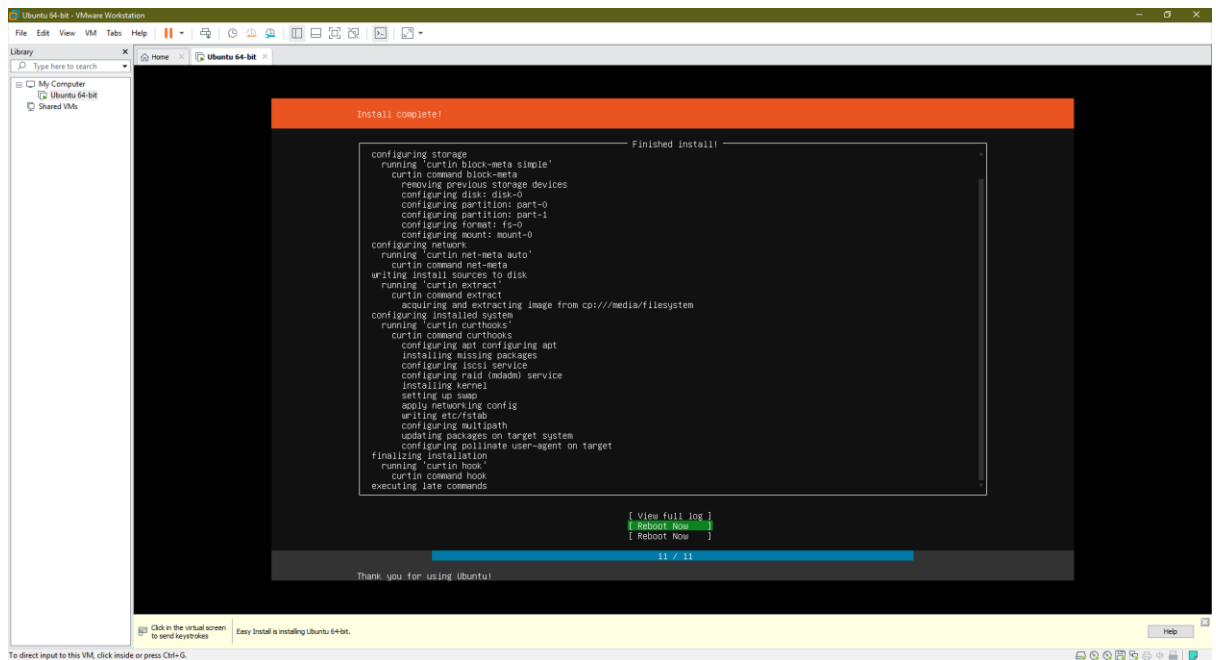
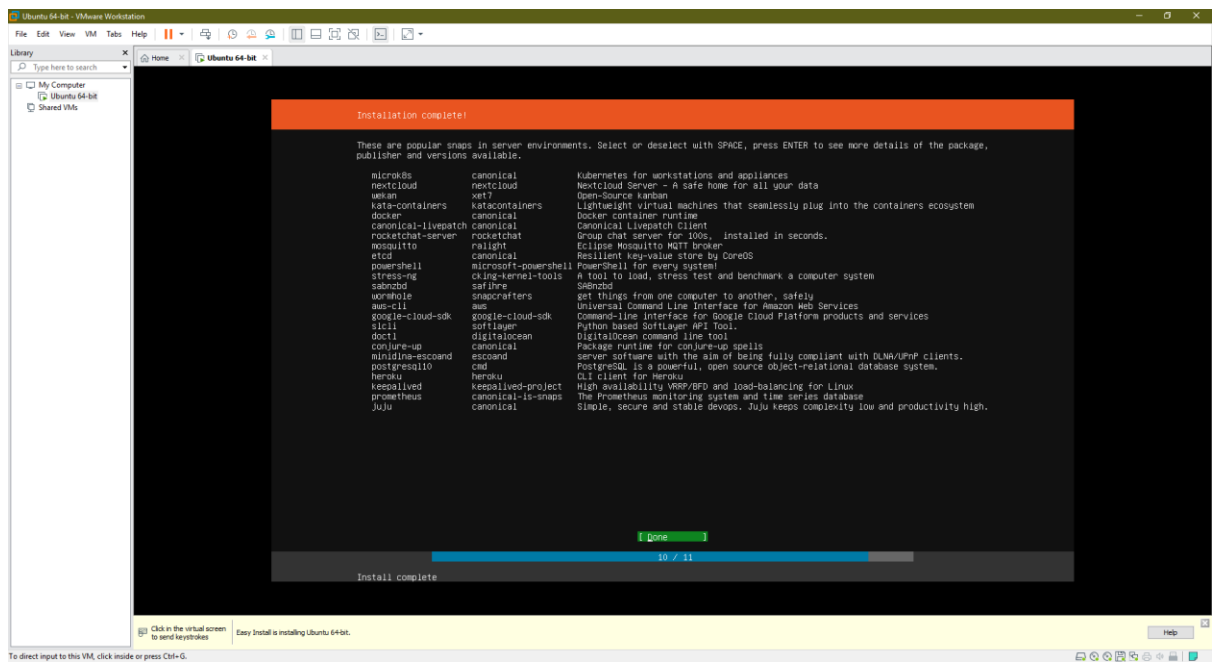


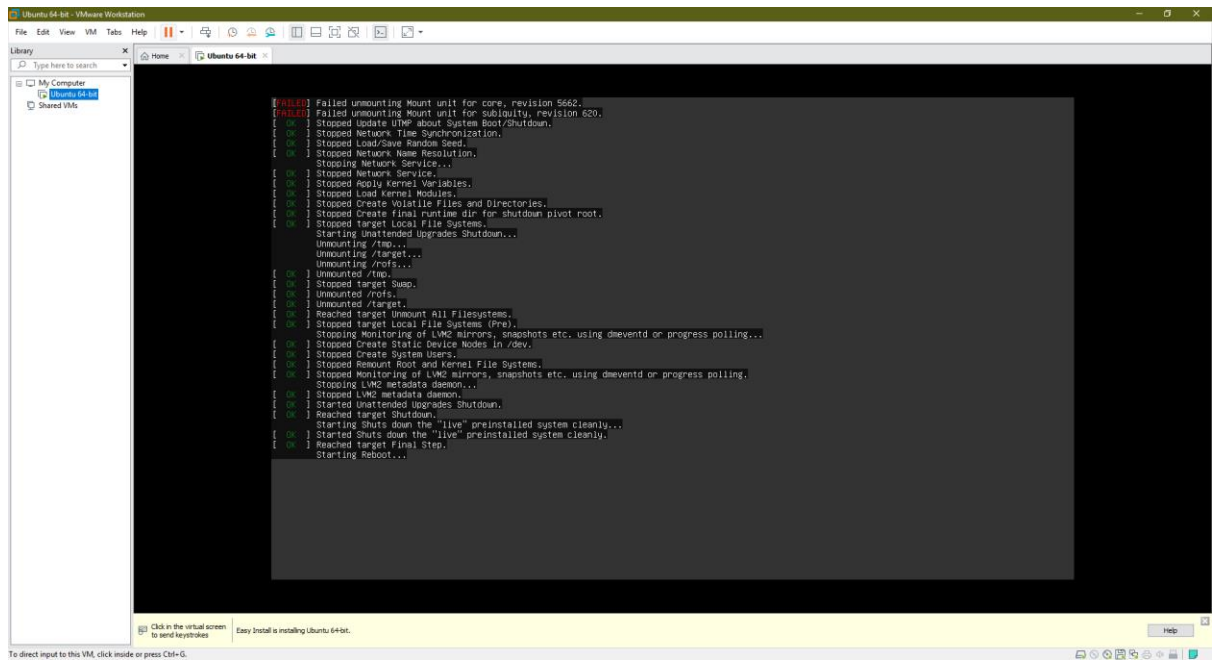




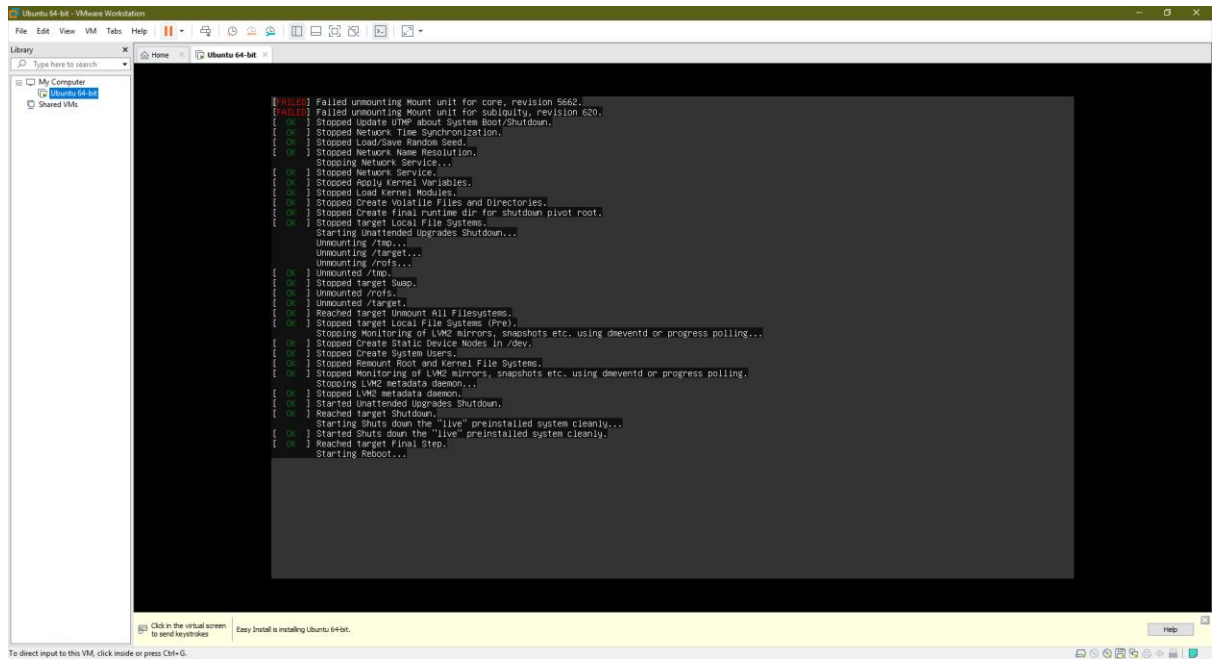
Konfirmasi. Setelah itu ada option Continue pilih yang Continue.

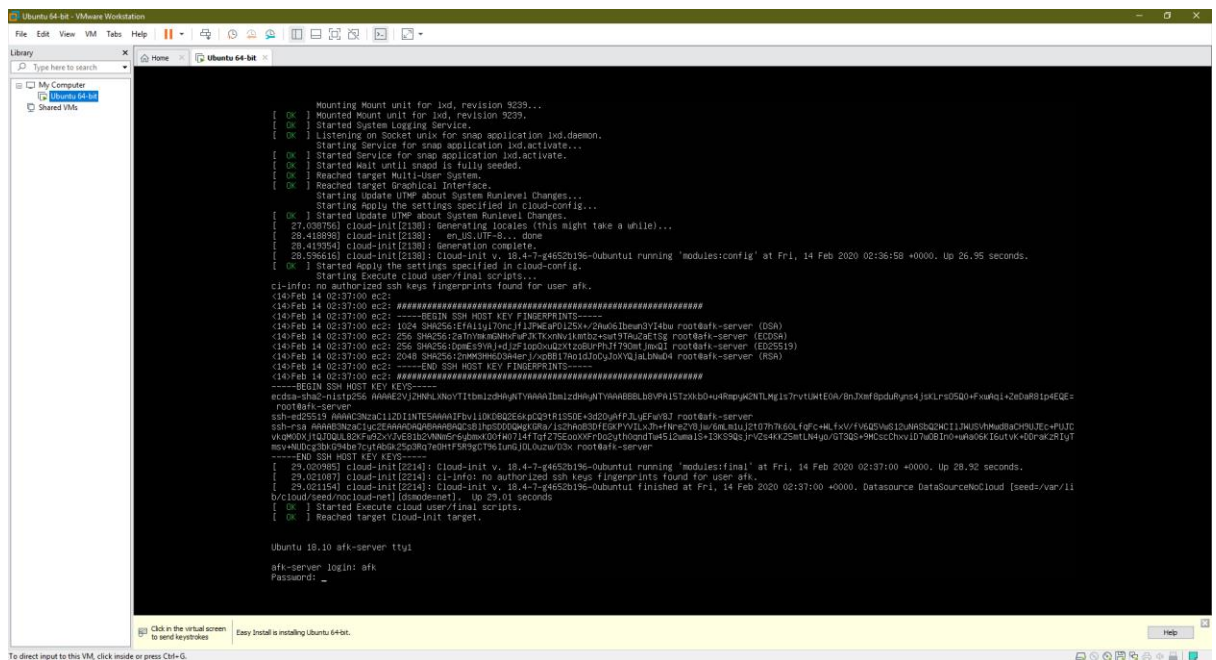
Isikan Username , Nickname Dan Password



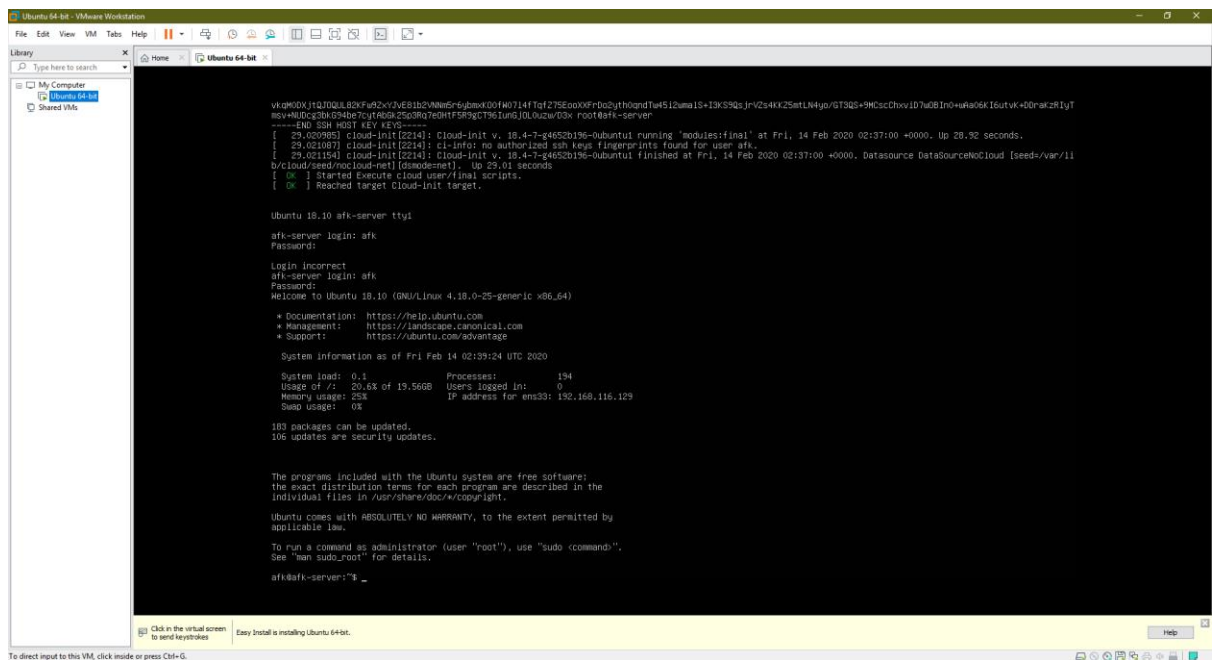


Apabila Prosesnya stop direset ajaa.





Submit Username dan Password



Kalau berhasil maka akan muncul welcome screen

MENCOBA BERPINDAH KE AKUN ROOT

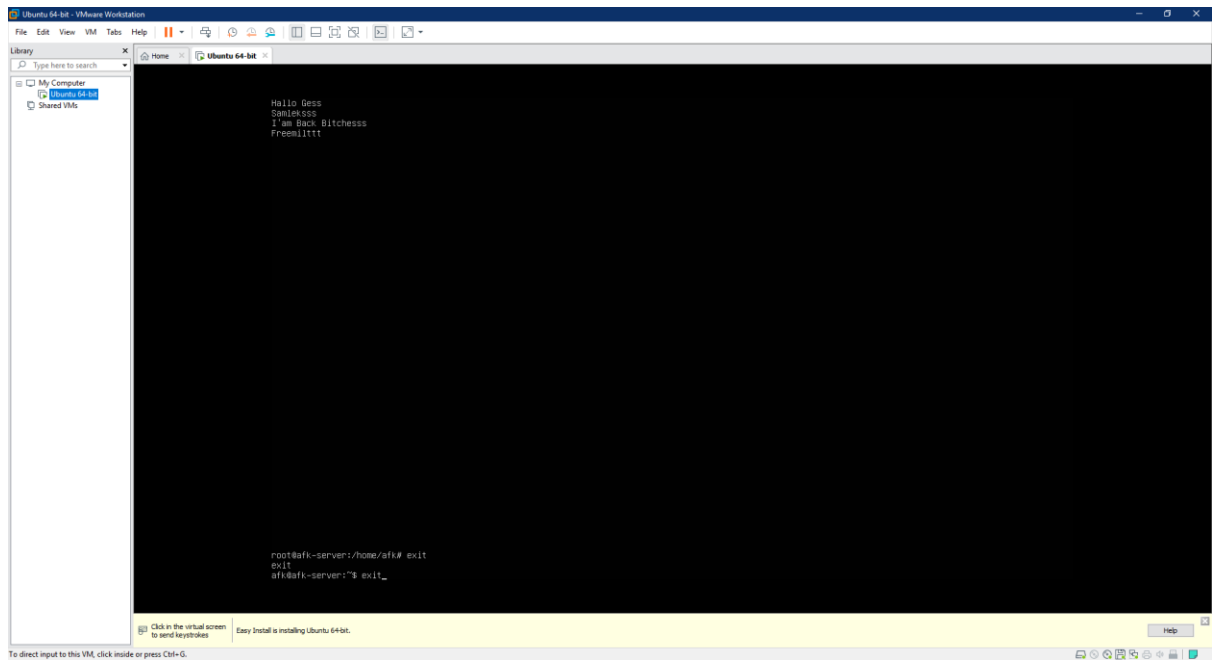
Sudo su lalu password untuk kembali lagi ketikkan exit.

Cara mengedit Welcome Screen

Nano /etc/motd

Tuliskan welcome screen yang akan dibuat ,untuk menyimpan ctrl O lalu enter untuk keluar ctrl x.

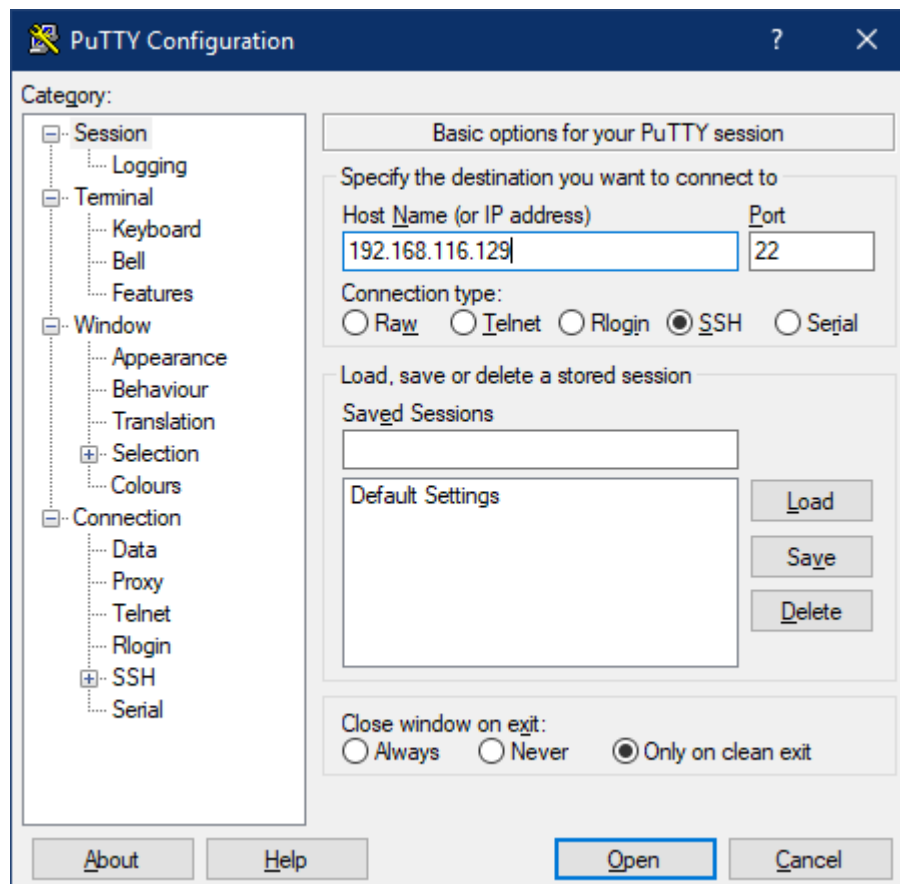
Untuk mengedit make nano



CARA KONFIGURASI

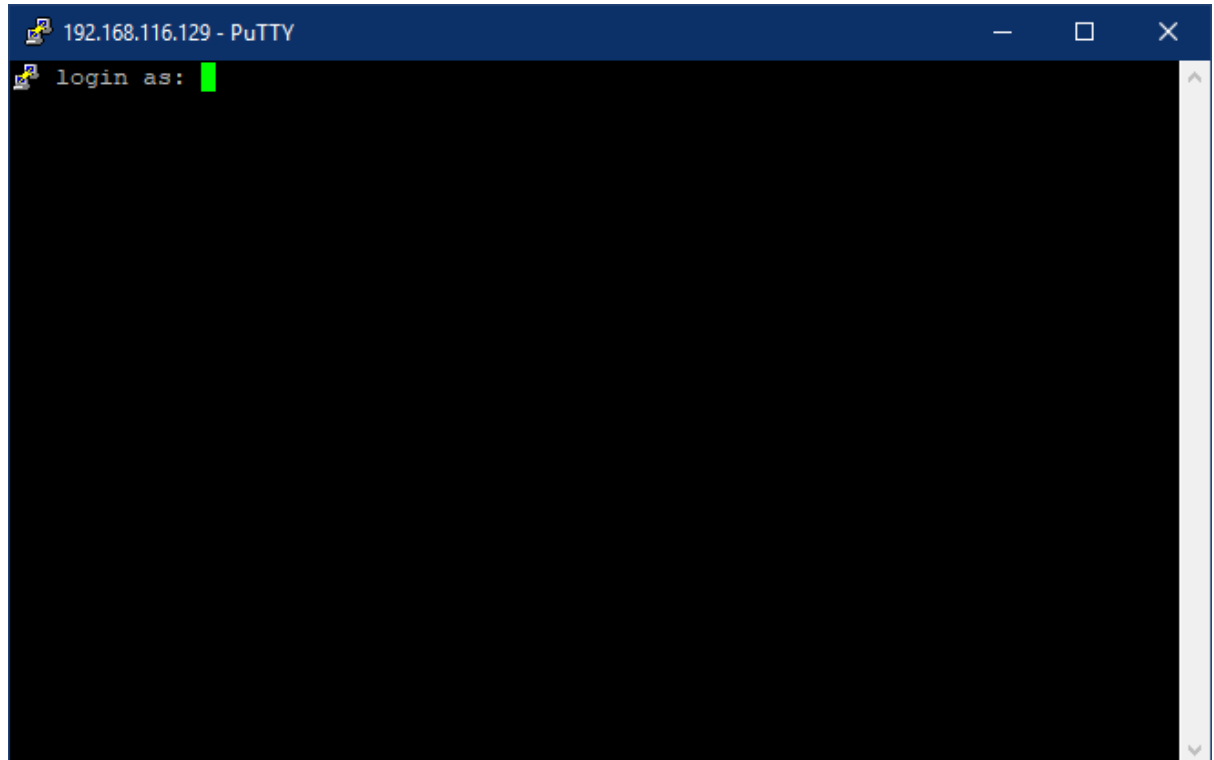
MENGUNAKAN REMOTE TERMINAL : PUTTY

1. Pertama Cari IP (IP bisa dilihat saat Login)
2. Buka PuTTY
3. Masukkan IP



Setelah input apabila ada pesan warning klik Yes.

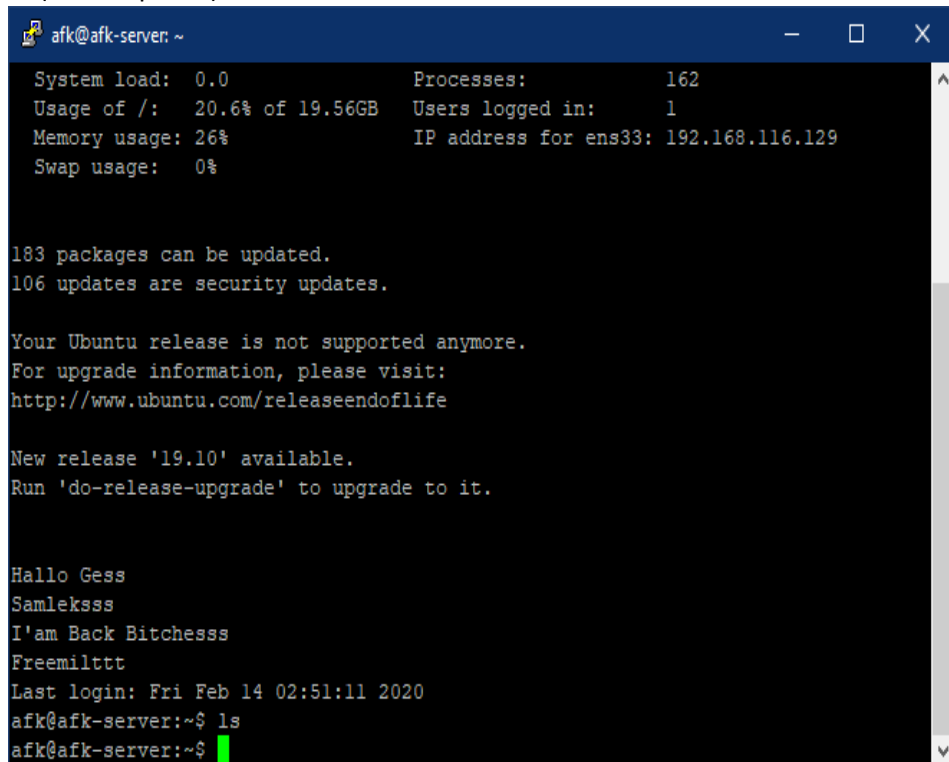
- Setelah itu uncul tampilan seperti ini



- Login seperti tadi

Evaluasi

- Ls (menampilkan)



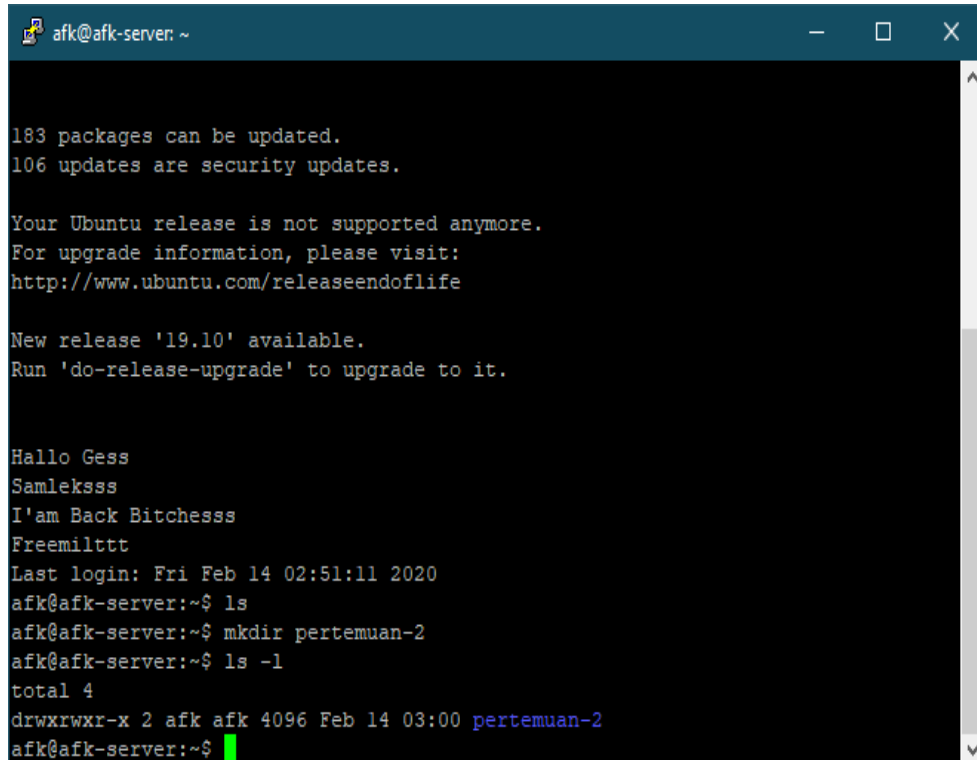
2. Mkdir pertemuan-2(melakukan input)

```
afk@afk-server: ~  
Usage of /: 20.6% of 19.56GB  Users logged in: 1  
Memory usage: 26%          IP address for ens33: 192.168.116.129  
Swap usage: 0%  
  
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.  
  
Hallo Gess  
Samleksss  
I'am Back Bitchsss  
Freemilttt  
Last login: Fri Feb 14 02:51:11 2020  
afk@afk-server:~$ ls  
afk@afk-server:~$ mkdir pertemuan-2  
afk@afk-server:~$
```

3. Ls -l (menghitung total baris sekaligus menampilkan inputan sebelumnya)

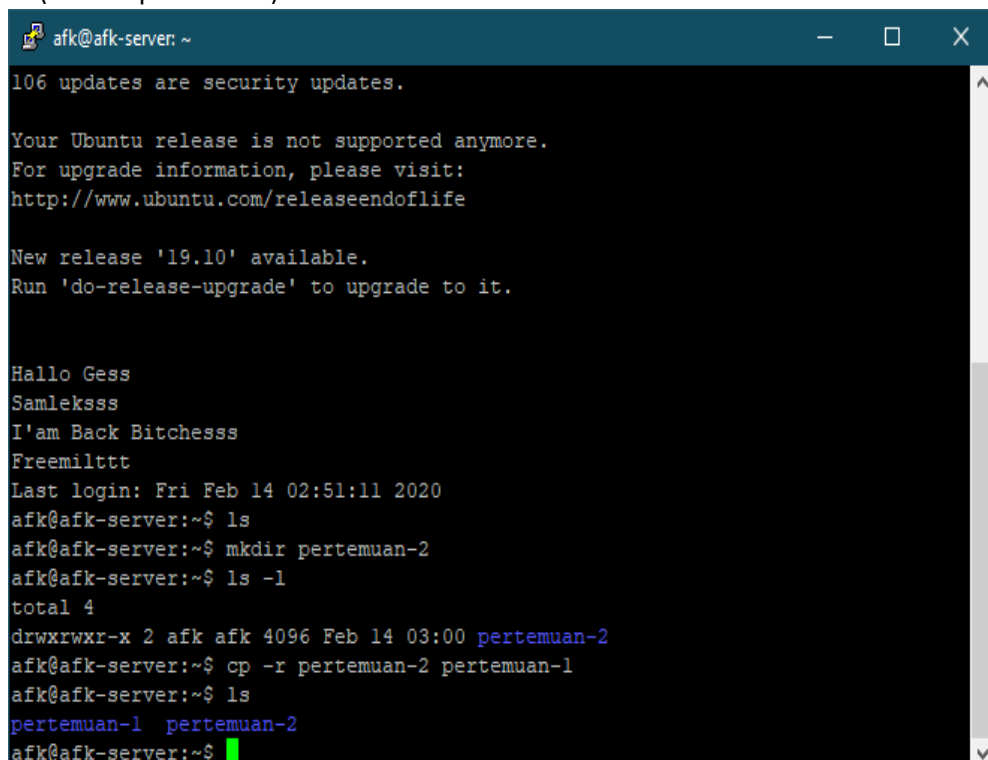
```
afk@afk-server: ~  
183 packages can be updated.  
106 updates are security updates.  
  
Your Ubuntu release is not supported anymore.  
For upgrade information, please visit:  
http://www.ubuntu.com/releaseendoflife  
  
New release '19.10' available.  
Run 'do-release-upgrade' to upgrade to it.  
  
Hallo Gess  
Samleksss  
I'am Back Bitchsss  
Freemilttt  
Last login: Fri Feb 14 02:51:11 2020  
afk@afk-server:~$ ls  
afk@afk-server:~$ mkdir pertemuan-2  
afk@afk-server:~$ ls -l  
total 4  
drwxrwxr-x 2 afk afk 4096 Feb 14 03:00 pertemuan-2  
afk@afk-server:~$
```

4. Cp -r pertemuan-2 pertemuan-1 (menampilkan welcome screen)



```
afk@afk-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.  
  
Hallo Gess  
Samlekssss  
I'am Back Bitchesss  
Freemilttt  
Last login: Fri Feb 14 02:51:11 2020  
afk@afk-server:~$ ls  
afk@afk-server:~$ mkdir pertemuan-2  
afk@afk-server:~$ ls -l  
total 4  
drwxrwxr-x 2 afk afk 4096 Feb 14 03:00 pertemuan-2  
afk@afk-server:~$
```

5. Ls (menampilkan data)



```
afk@afk-server: ~  
  
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.  
  
Hallo Gess  
Samlekssss  
I'am Back Bitchesss  
Freemilttt  
Last login: Fri Feb 14 02:51:11 2020  
afk@afk-server:~$ ls  
afk@afk-server:~$ mkdir pertemuan-2  
afk@afk-server:~$ ls -l  
total 4  
drwxrwxr-x 2 afk afk 4096 Feb 14 03:00 pertemuan-2  
afk@afk-server:~$ cp -r pertemuan-2 pertemuan-1  
afk@afk-server:~$ ls  
pertemuan-1  pertemuan-2  
afk@afk-server:~$
```

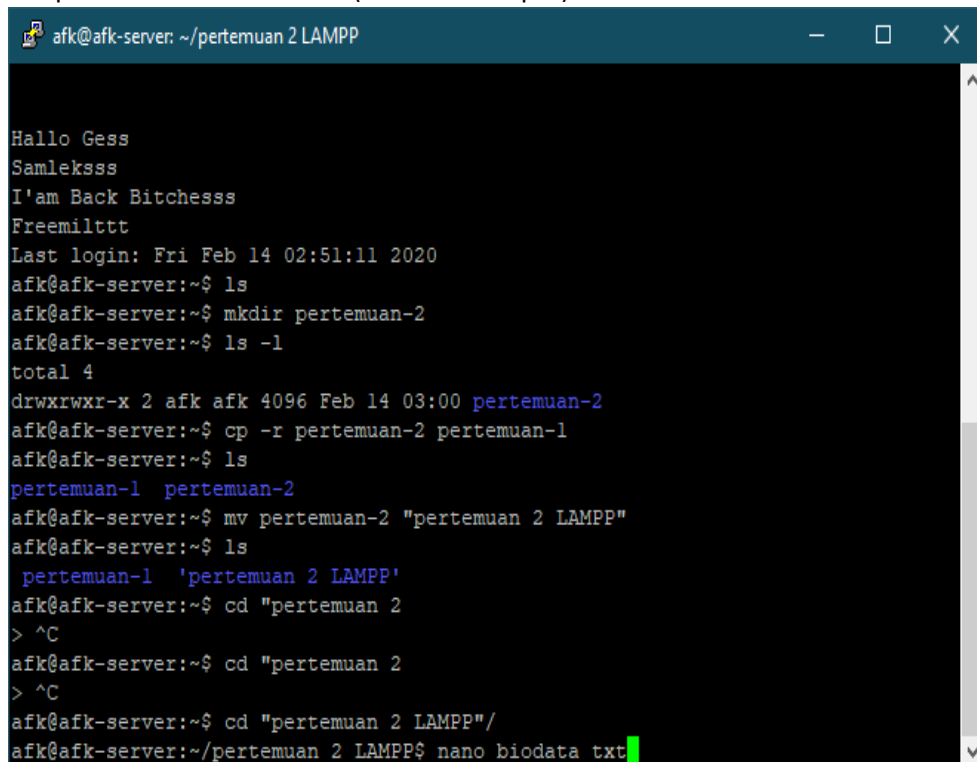
6. Mv pertemuan-2 "pertemuan 2 LAMP" (melakukan input)

```
afk@afk-server: ~  
  
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.  
  
Hallo Gess  
Samleksss  
I'am Back Bitchsss  
Freemilttt  
Last login: Fri Feb 14 02:51:11 2020  
afk@afk-server:~$ ls  
afk@afk-server:~$ mkdir pertemuan-2  
afk@afk-server:~$ ls -l  
total 4  
drwxrwxr-x 2 afk afk 4096 Feb 14 03:00 pertemuan-2  
afk@afk-server:~$ cp -r pertemuan-2 pertemuan-1  
afk@afk-server:~$ ls  
pertemuan-1  pertemuan-2  
afk@afk-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"  
afk@afk-server:~$
```

7. Ls(menampilkan dta)

```
afk@afk-server: ~  
  
For upgrade information, please visit:  
http://www.ubuntu.com/releaseendoflife  
  
New release '19.10' available.  
Run 'do-release-upgrade' to upgrade to it.  
  
Hallo Gess  
Samleksss  
I'am Back Bitchsss  
Freemilttt  
Last login: Fri Feb 14 02:51:11 2020  
afk@afk-server:~$ ls  
afk@afk-server:~$ mkdir pertemuan-2  
afk@afk-server:~$ ls -l  
total 4  
drwxrwxr-x 2 afk afk 4096 Feb 14 03:00 pertemuan-2  
afk@afk-server:~$ cp -r pertemuan-2 pertemuan-1  
afk@afk-server:~$ ls  
pertemuan-1  pertemuan-2  
afk@afk-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"  
afk@afk-server:~$ ls  
pertemuan-1  'pertemuan 2 LAMPP'  
afk@afk-server:~$
```

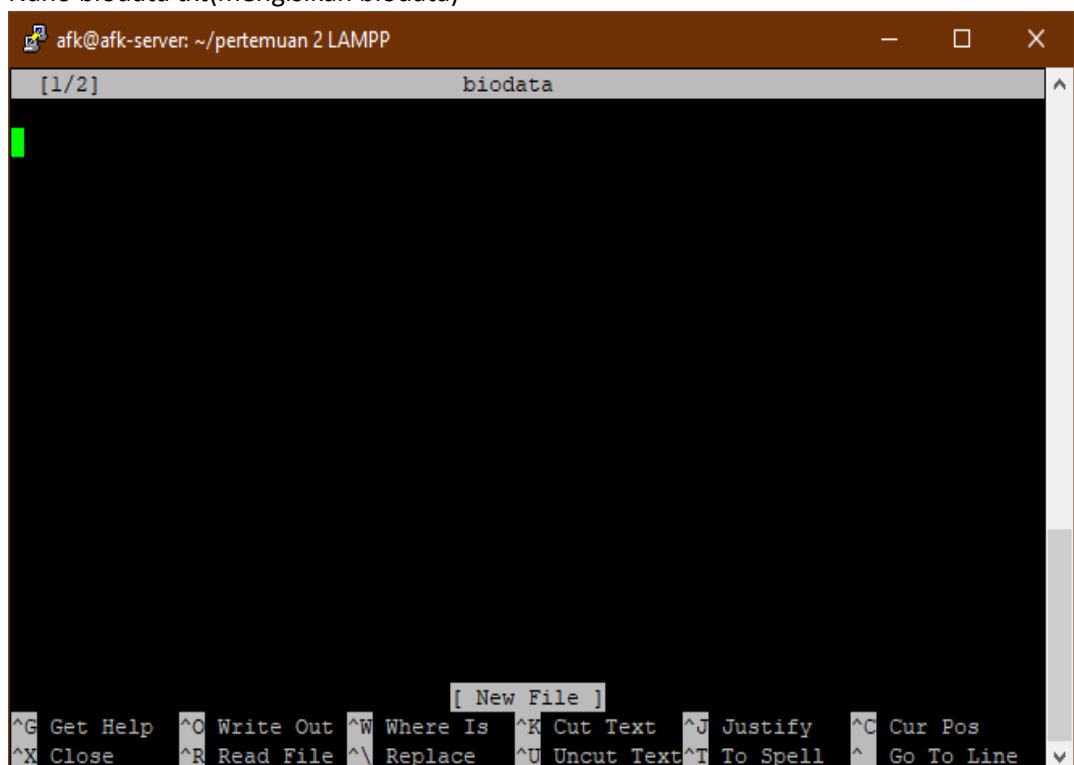

8. cd "pertemuan 2 terus ditab (melakukan input)



```
afk@afk-server: ~/pertemuan 2 LAMPP

Hallo Gess
Samleksss
I'am Back Bitchesss
Freemilttt
Last login: Fri Feb 14 02:51:11 2020
afk@afk-server:~$ ls
afk@afk-server:~$ mkdir pertemuan-2
afk@afk-server:~$ ls -l
total 4
drwxrwxr-x 2 afk afk 4096 Feb 14 03:00 pertemuan-2
afk@afk-server:~$ cp -r pertemuan-2 pertemuan-1
afk@afk-server:~$ ls
pertemuan-1  pertemuan-2
afk@afk-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
afk@afk-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
afk@afk-server:~$ cd "pertemuan 2
> ^C
afk@afk-server:~$ cd "pertemuan 2
> ^C
afk@afk-server:~$ cd "pertemuan 2 LAMPP"/
afk@afk-server:~/pertemuan 2 LAMPP$ nano biodata txt
```

9. Nano biodata txt(mengisikan biodata)



```
afk@afk-server: ~/pertemuan 2 LAMPP

[1/2] biodata

[ New File ]
^G Get Help  ^O Write Out ^W Where Is  ^K Cut Text  ^J Justify   ^C Cur Pos
^X Close     ^R Read File ^\ Replace  ^U Uncut Text ^T To Spell  ^_ Go To Line
```

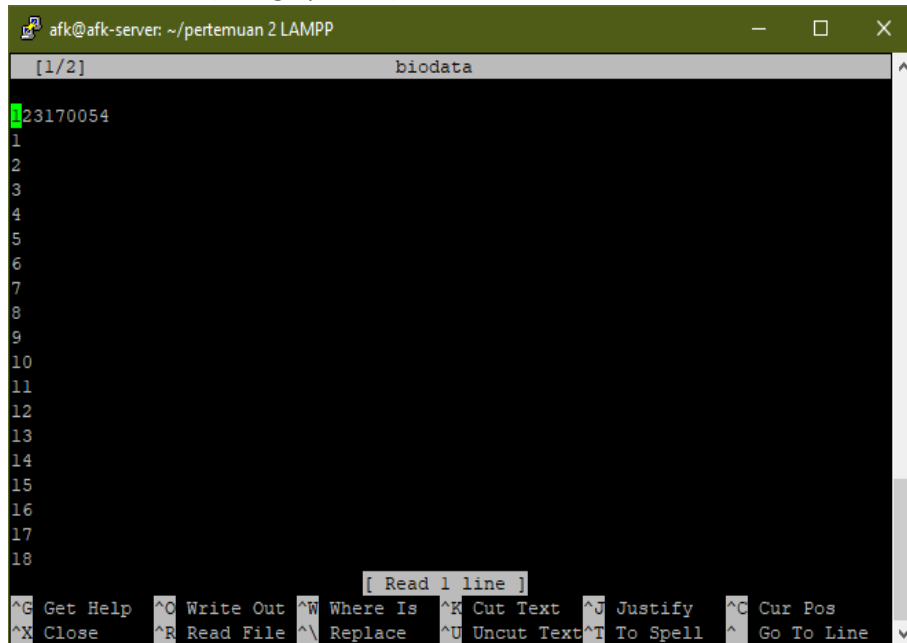
10. Ls -l (menampilkan data)

```
afk@afk-server: ~/pertemuan 2 LAMPP
Freemilttt
Last login: Fri Feb 14 02:51:11 2020
afk@afk-server:~$ ls
afk@afk-server:~$ mkdir pertemuan-2
afk@afk-server:~$ ls -l
total 4
drwxrwxr-x 2 afk afk 4096 Feb 14 03:00 pertemuan-2
afk@afk-server:~$ cp -r pertemuan-2 pertemuan-1
afk@afk-server:~$ ls
pertemuan-1  pertemuan-2
afk@afk-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
afk@afk-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
afk@afk-server:~$ cd "pertemuan 2
> ^C
afk@afk-server:~$ cd "pertemuan 2
> ^C
afk@afk-server:~$ cd "pertemuan 2 LAMPP"/
afk@afk-server:~/pertemuan 2 LAMPP$ nano biodata txt
afk@afk-server:~/pertemuan 2 LAMPP$ ls -l
total 8
-rw-rw-r-- 1 afk afk 10 Feb 14 03:16 biodata
-rw-rw-r-- 1 afk afk  1 Feb 14 03:17 txt
afk@afk-server:~/pertemuan 2 LAMPP$
```

11. Cat biodata txt (memanggil inputan tadi)

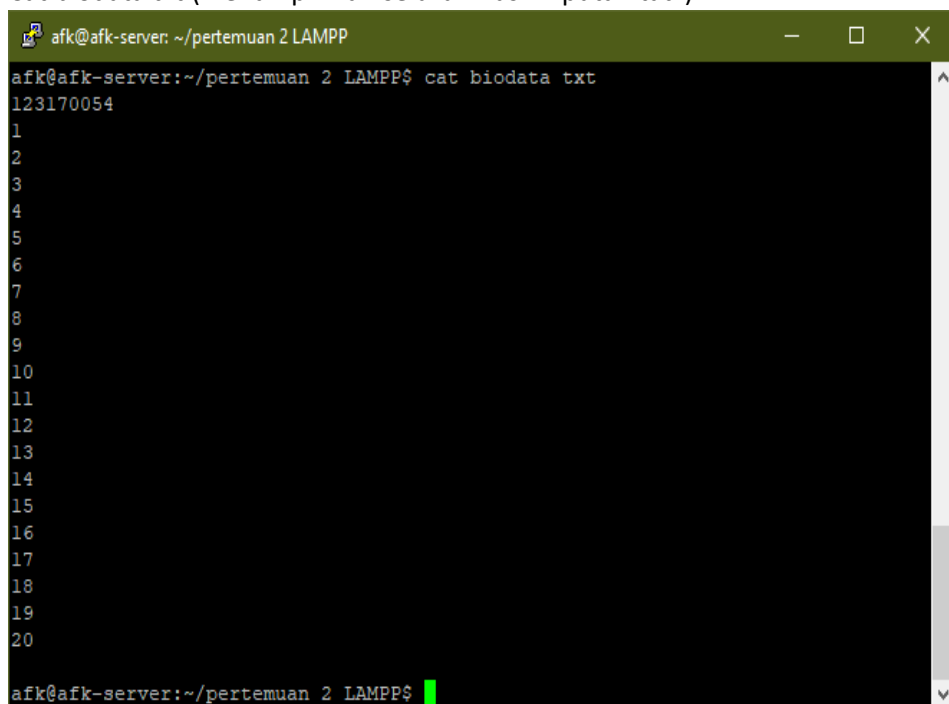
```
afk@afk-server: ~/pertemuan 2 LAMPP
afk@afk-server:~$ mkdir pertemuan-2
afk@afk-server:~$ ls -l
total 4
drwxrwxr-x 2 afk afk 4096 Feb 14 03:00 pertemuan-2
afk@afk-server:~$ cp -r pertemuan-2 pertemuan-1
afk@afk-server:~$ ls
pertemuan-1  pertemuan-2
afk@afk-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
afk@afk-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
afk@afk-server:~$ cd "pertemuan 2
> ^C
afk@afk-server:~$ cd "pertemuan 2
> ^C
afk@afk-server:~$ cd "pertemuan 2 LAMPP"/
afk@afk-server:~/pertemuan 2 LAMPP$ nano biodata txt
afk@afk-server:~/pertemuan 2 LAMPP$ ls -l
total 8
-rw-rw-r-- 1 afk afk 10 Feb 14 03:16 biodata
-rw-rw-r-- 1 afk afk  1 Feb 14 03:17 txt
afk@afk-server:~/pertemuan 2 LAMPP$ cat biodata txt
123170054
afk@afk-server:~/pertemuan 2 LAMPP$
```

12. Nano biodata txt(menginputkan)



The screenshot shows the Nano text editor interface. The title bar indicates the file is 'biodata' and the current position is '[1/2]'. The main editing area shows line 1 with the text '123170054'. The left margin shows line numbers from 1 to 18. The bottom status bar displays various keyboard shortcuts for Nano operations: ^G Get Help, ^O Write Out, ^W Where Is, ^K Cut Text, ^J Justify, ^C Cur Pos, ^X Close, ^R Read File, ^\ Replace, ^U Uncut Text, ^T To Spell, and ^_ Go To Line.

13. Cat biodata txt (menampilkan seluruh hasil inputan tadi)



The screenshot shows a terminal window with the command prompt 'afk@afk-server: ~/pertemuan 2 LAMPP\$'. The command 'cat biodata.txt' has been entered and executed. The output of the command is displayed on the next line, showing '123170054'. The terminal window has a title bar that reads 'afk@afk-server: ~/pertemuan 2 LAMPP'.

14. Tail biodata txt (menampilkan hasil tapi yang akhir saja)

```
afk@afk-server: ~/pertemuan 2 LAMPP
14
15
16
17
18
19
20

afk@afk-server:~/pertemuan 2 LAMPP$ tail biodata txt
==> biodata <==
11
12
13
14
15
16
17
18
19
20

==> txt <==

afk@afk-server:~/pertemuan 2 LAMPP$
```