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123170042

PRAKTIKUM CLOUD COMPUTING

Pertemuan 2

Judul : **Pengenalan VMware Workstation dan Linux OS**

-VMware digunakan untuk virtualisasi(menciptakan sistem maya) sistem operasi

-swap digunakan agar komputer host tidak memiliki Ram yang cukup agar tetap bisa menjalankan VM

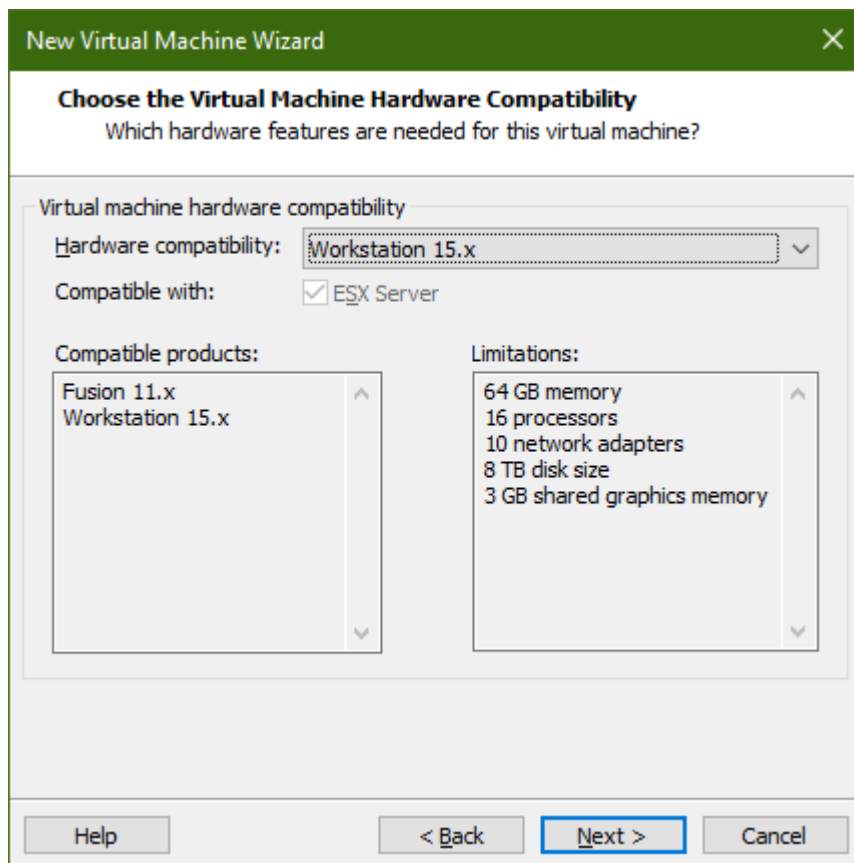
-VMworkstation portnya bertabrakan dengan XAMPP, bisa diatur menggunakan preference ->shared VMs->disable sharing

-Langkah Pembuatan VM



1. Pilih custom agar dapat diatur

2. pengaturan compability untuk menyesuaikan kemampuan VM yang akan kita install, semakin baru generasi VM semakin besar compability



Pilih workstation 15.x

3. pilih ISO dari VM yang akan diinstall

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

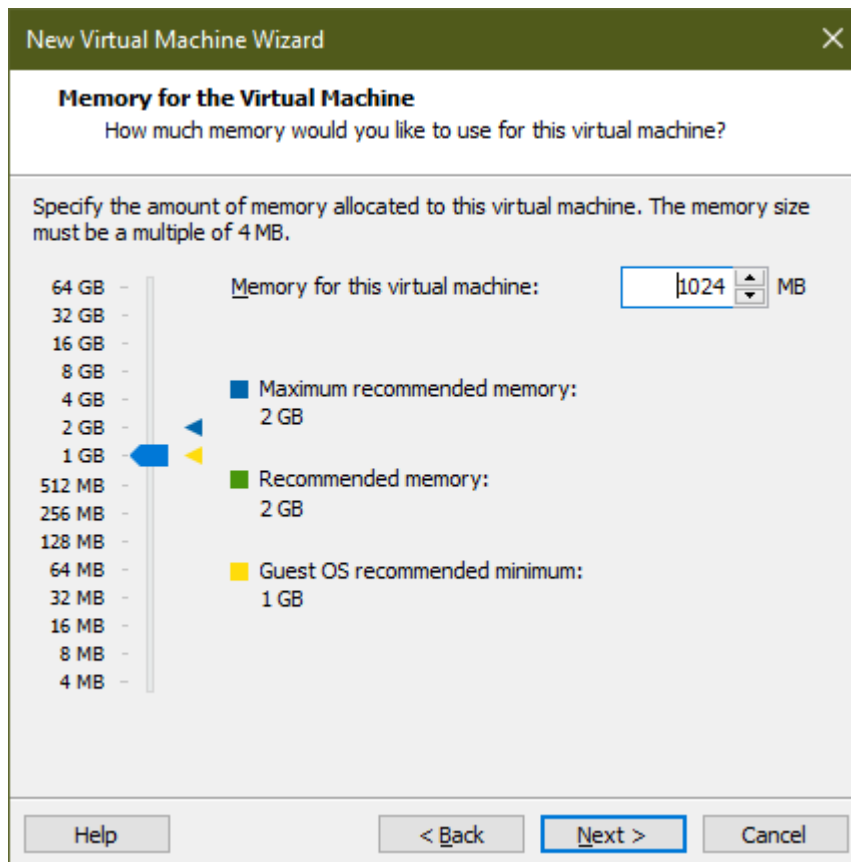
Pilih ubuntu 18.10

4. Isi fullname, username,password

5. pengaturan direktori

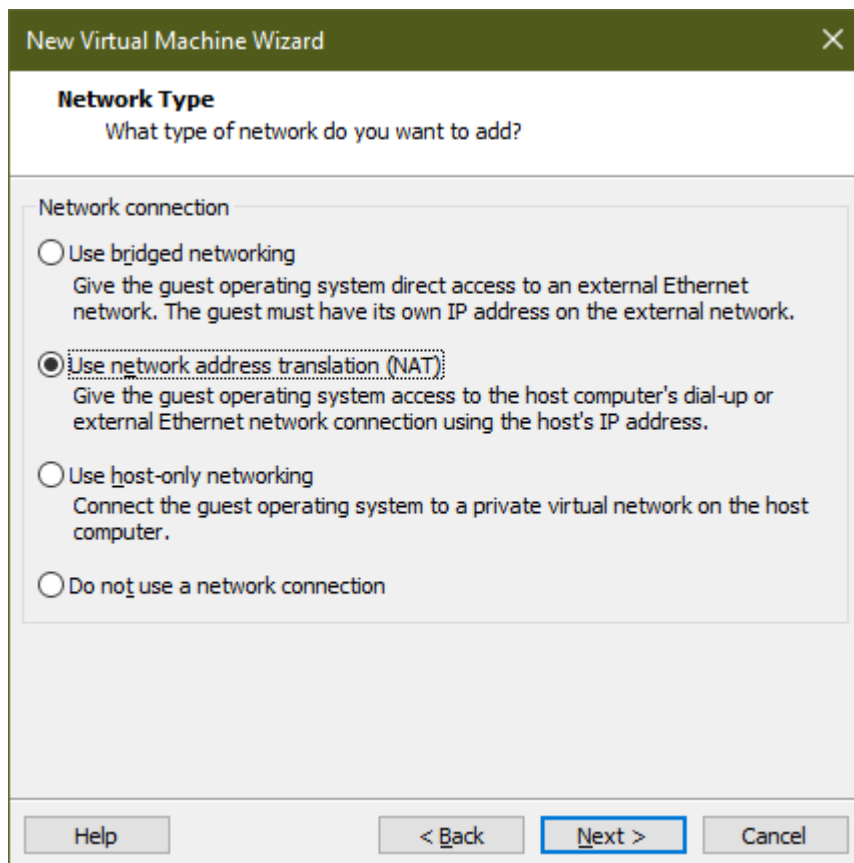
Prosesor =2 agar os tidak terlalu berat

7. penentuan RAM



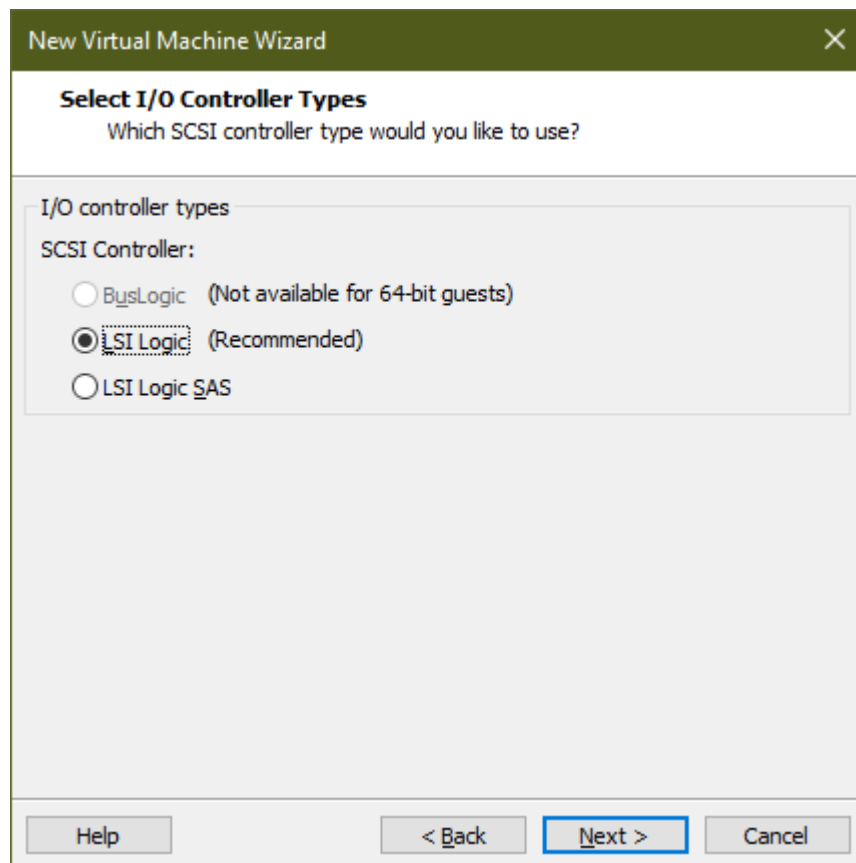
Pilih 1gb, karena ubuntu versi server tidak membutuhkan banyak ram

8. penentuan tipe network



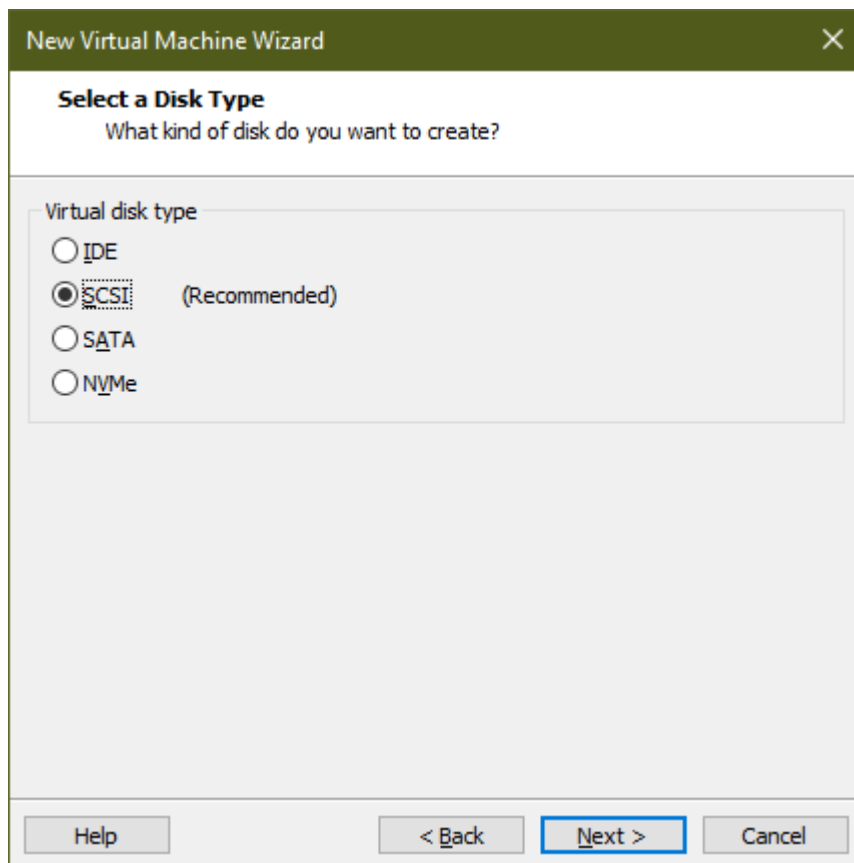
Pilih NAT, dimana hampir sama seperti localhost

9. memilih I/O controller



Pilih yang recommended

10. pilih tipe disk



Karena menggunakan UBuntu pilih disk type SCSI recommended karena pemilihan disesuaikan dengan OS

11. Pilih create new virtual disk

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

12.

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

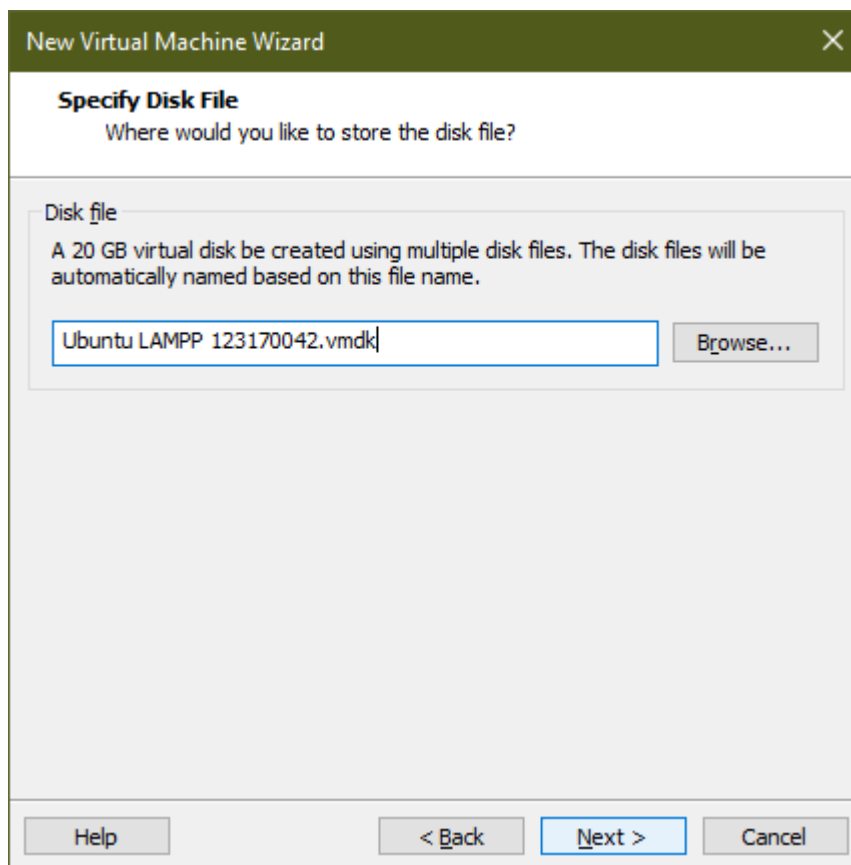
Next >

Cancel

Ukuran default yang disarankan untuk Ubuntu=20gb

Menu allocate virtual disk digunakan untuk memesan pada hardisk 20gb

13.



14.

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 LAMPP 123170042
Location:	D:\VM-123170042\Ubuntu LAMPP
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...

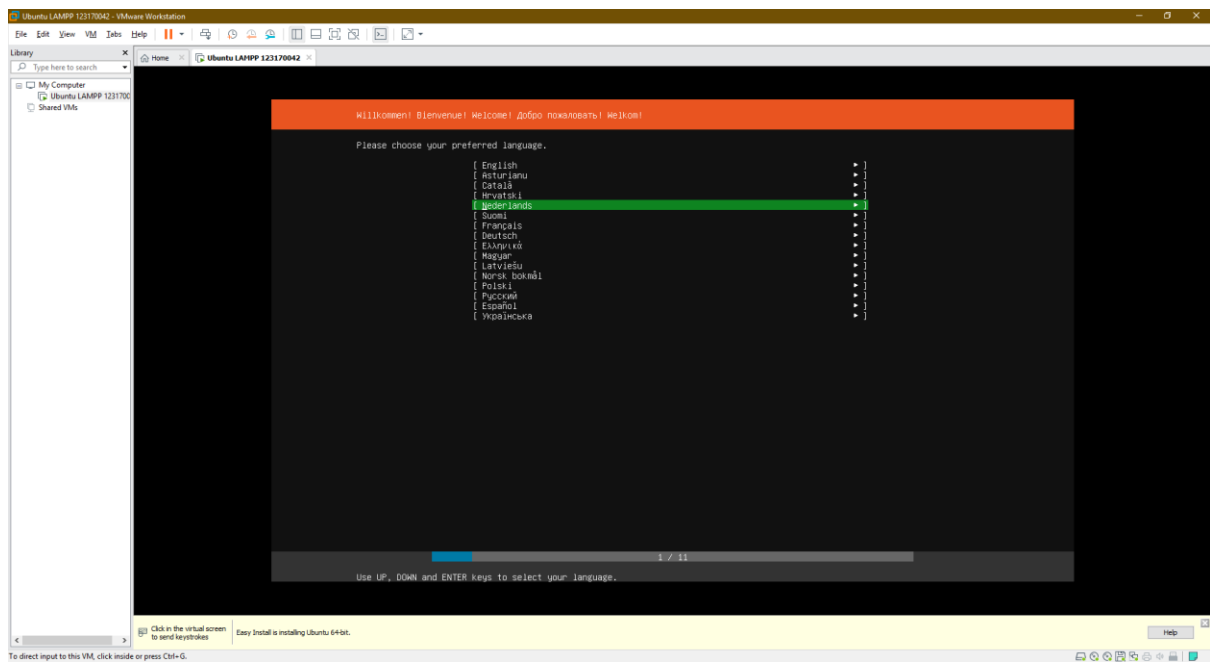
[Customize Hardware...](#)

☒ Power on this virtual machine after creation

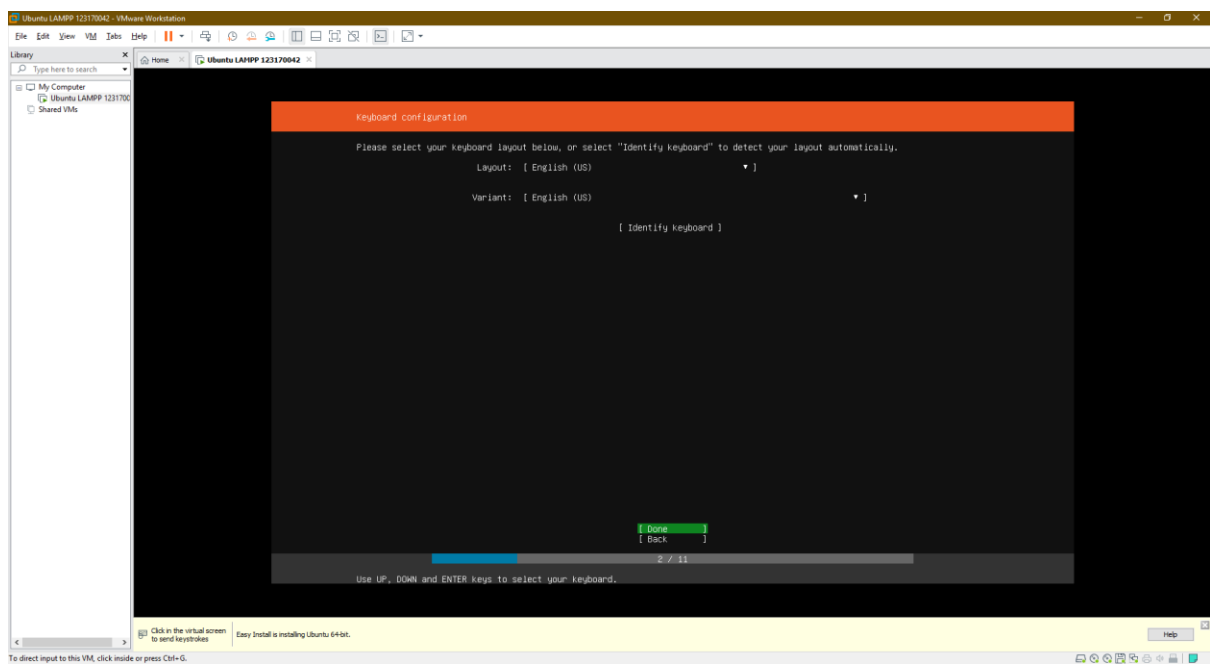
< Back

Finish

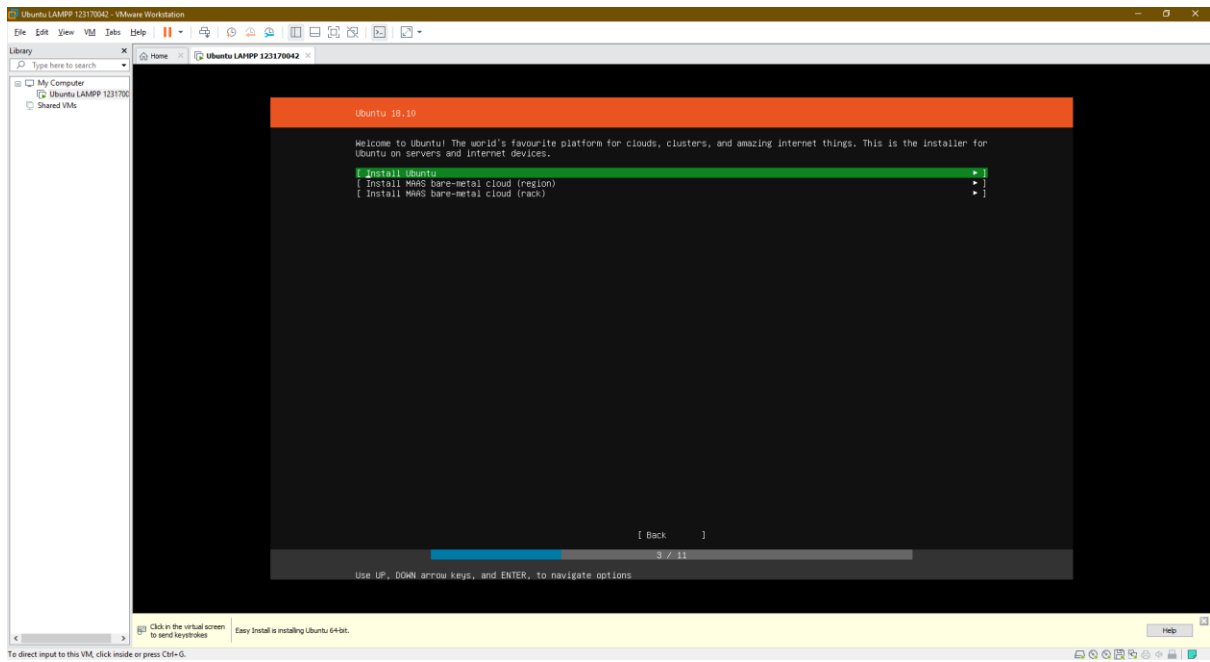
Cancel



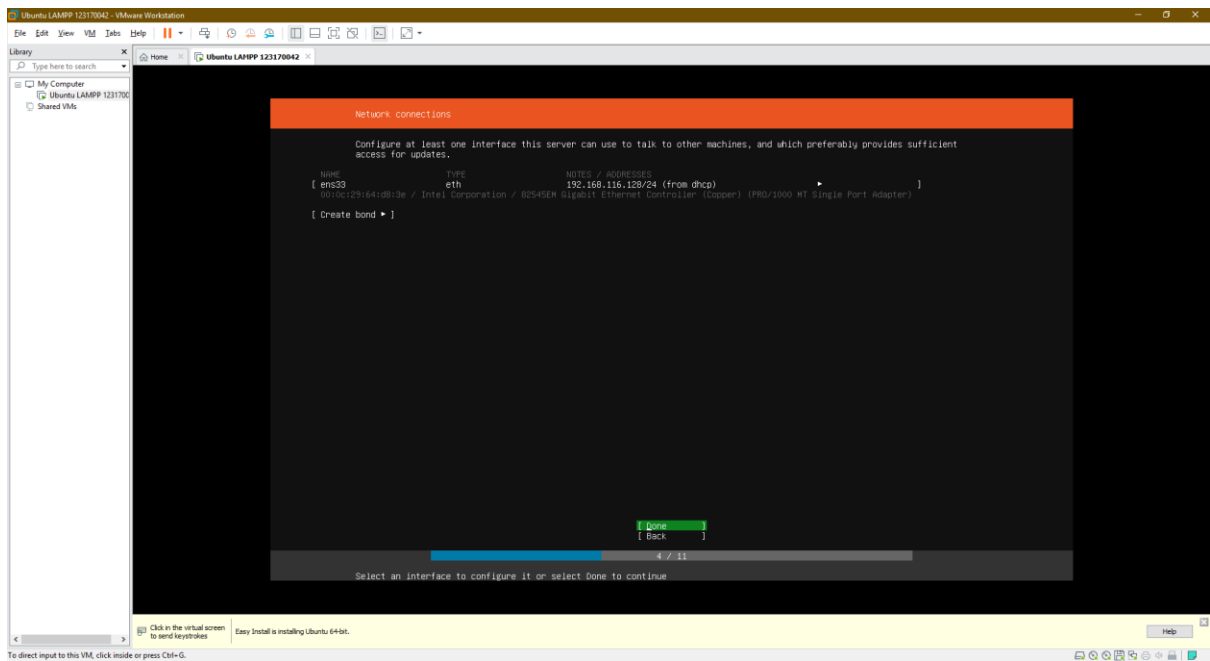
-Klik kiri/ctrl+G untuk interaksi vm, untuk kembali interaksi dengan windows menggunakan ctrl+alt, pilih bahasa inggris



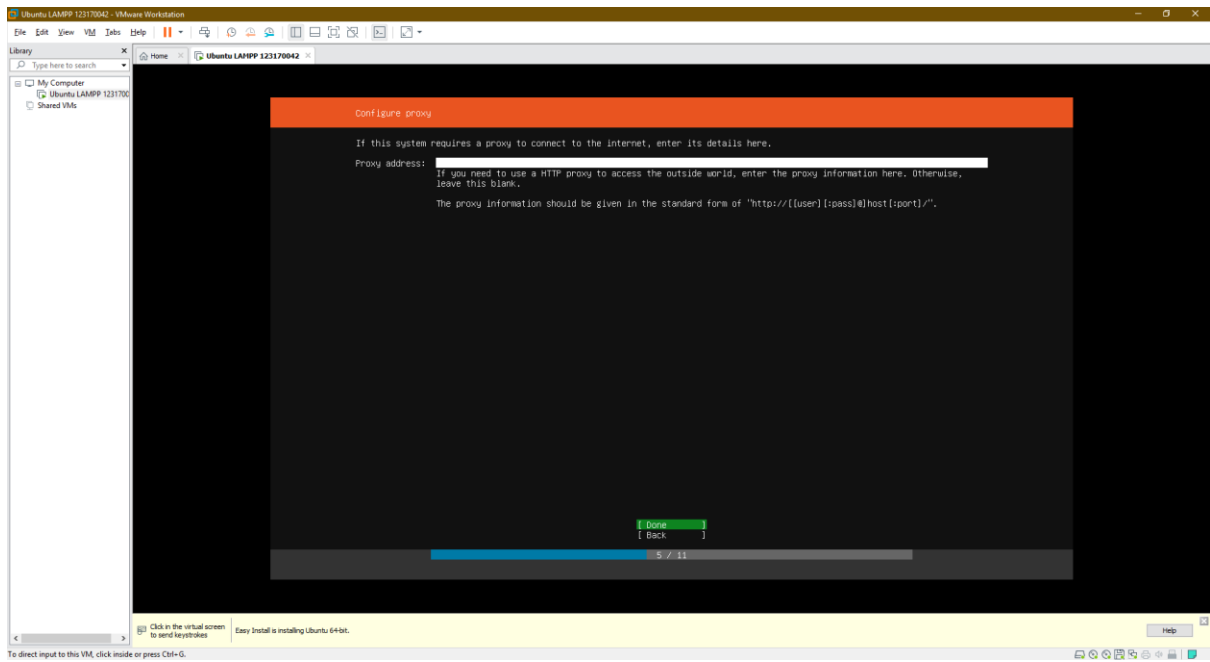
-pengaturan keyboard layout, gunakan default



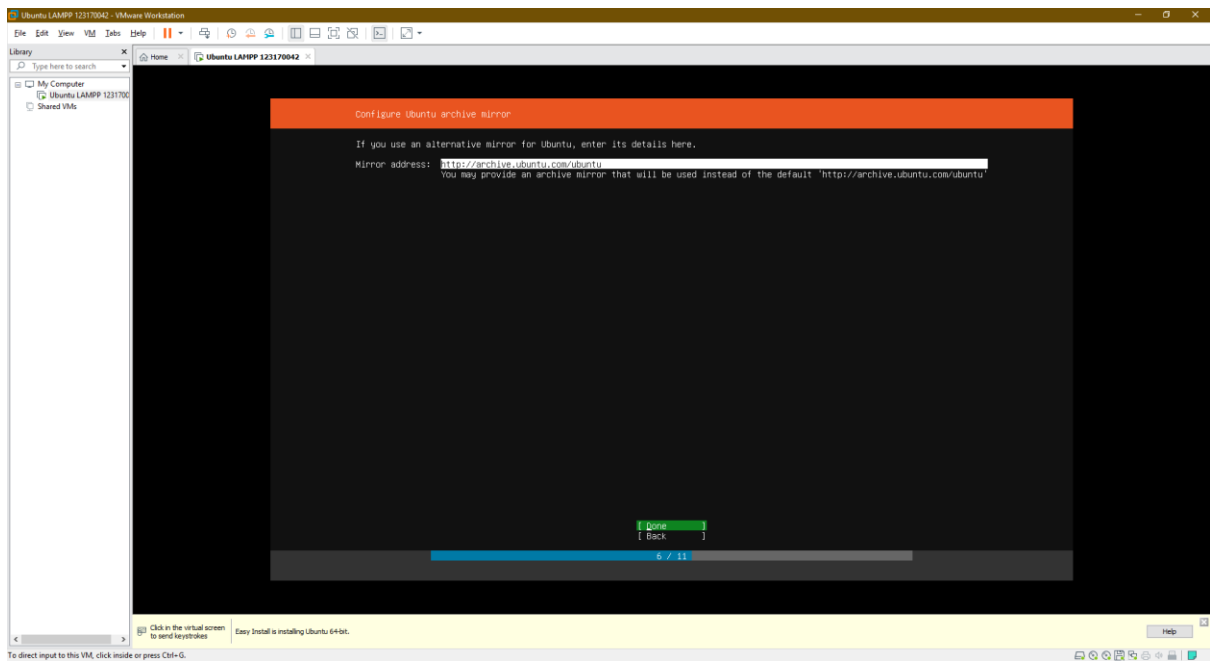
-install ubuntu



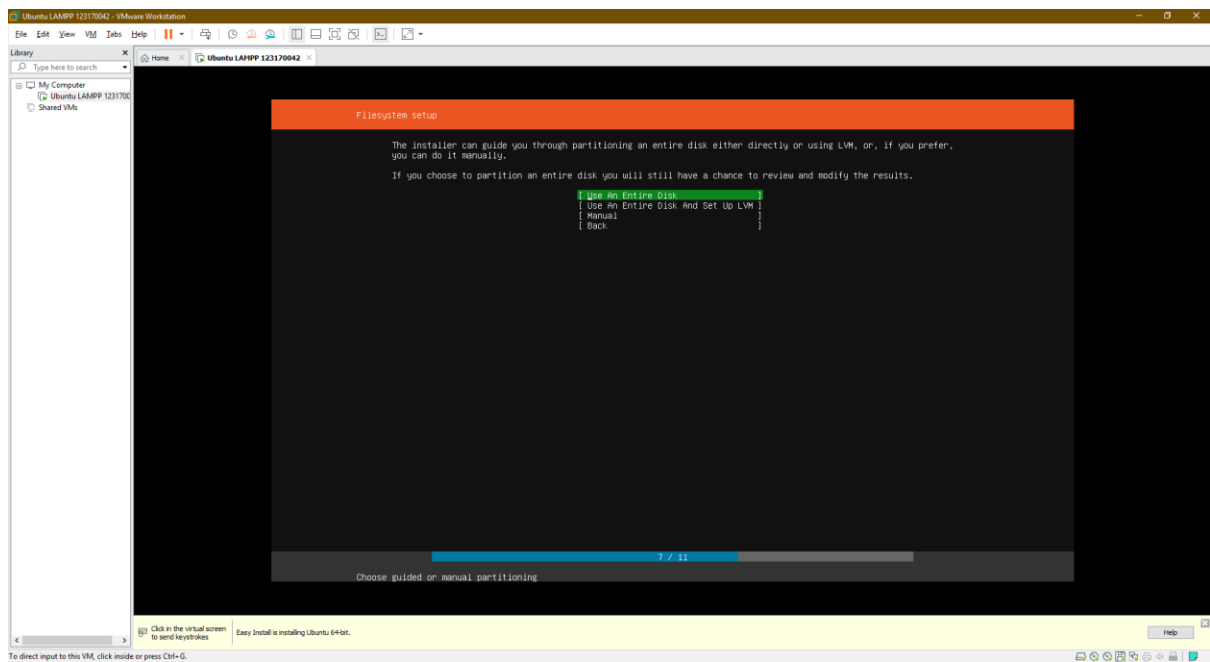
-mode jaringan, saat install harus menyambung dengan internet dengan mode jaringan NAT



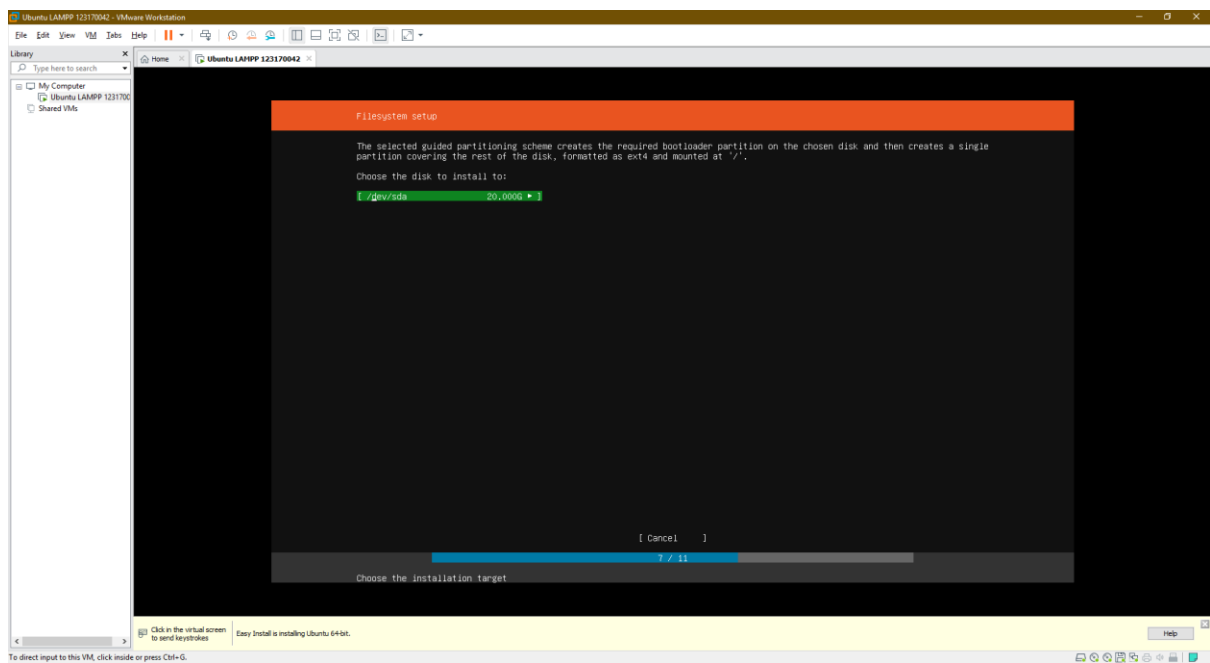
-karena sdisini tidak perlu proxy maka tidak perlu diisi



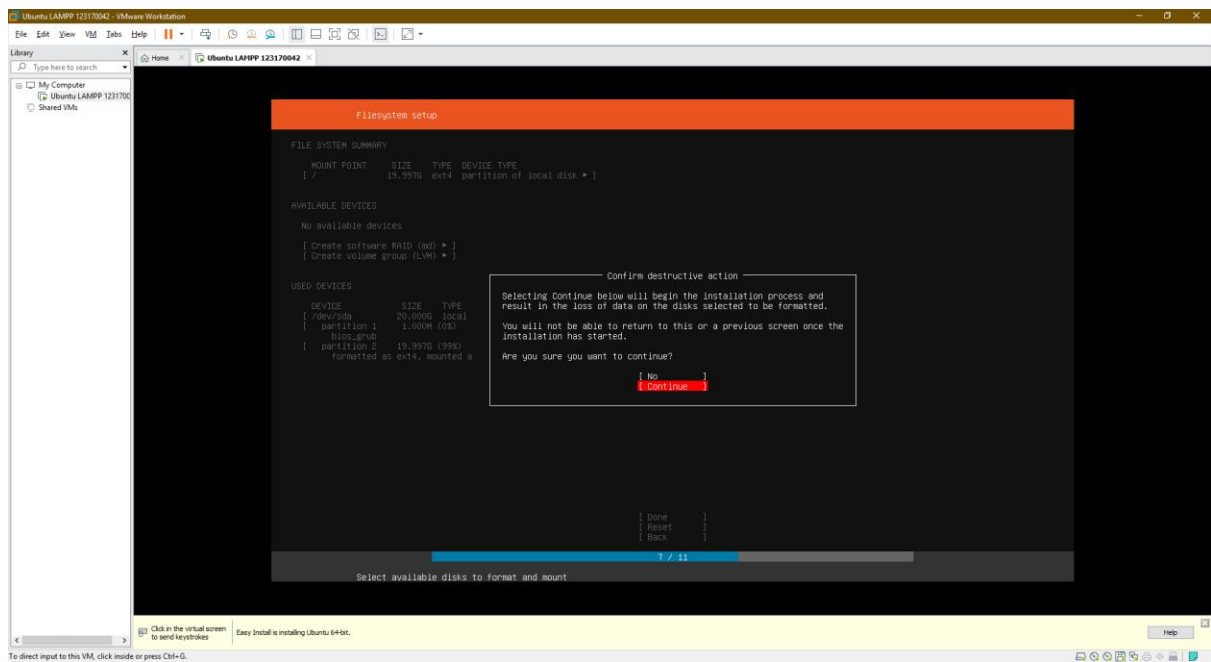
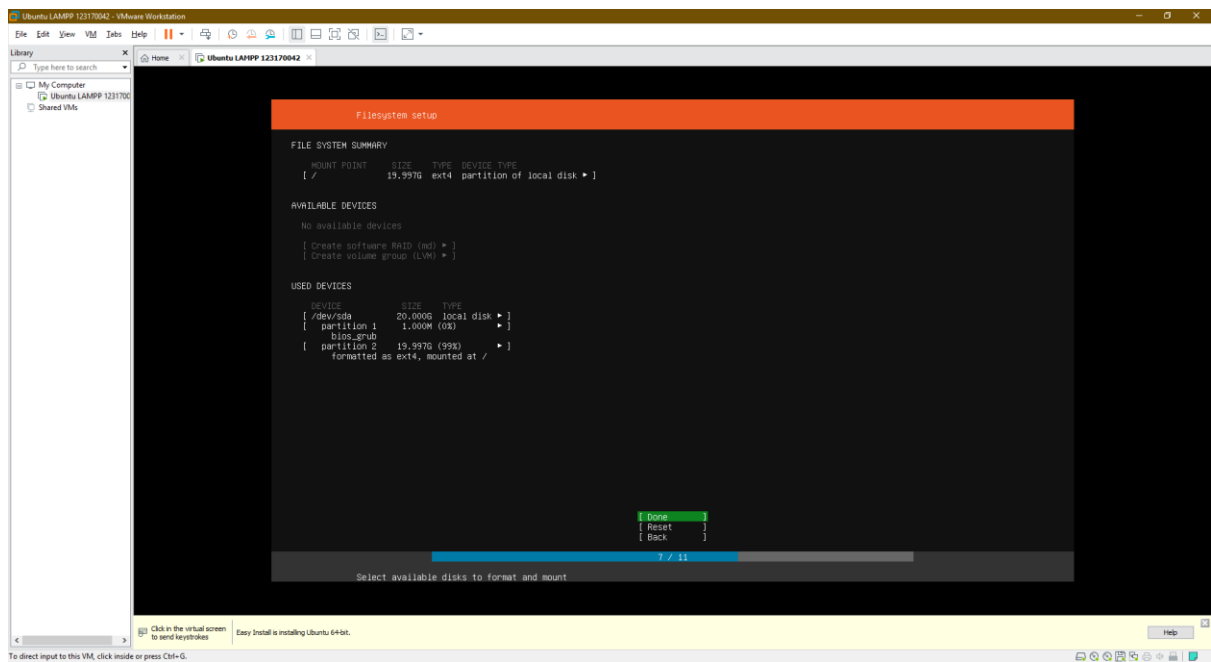
-repository

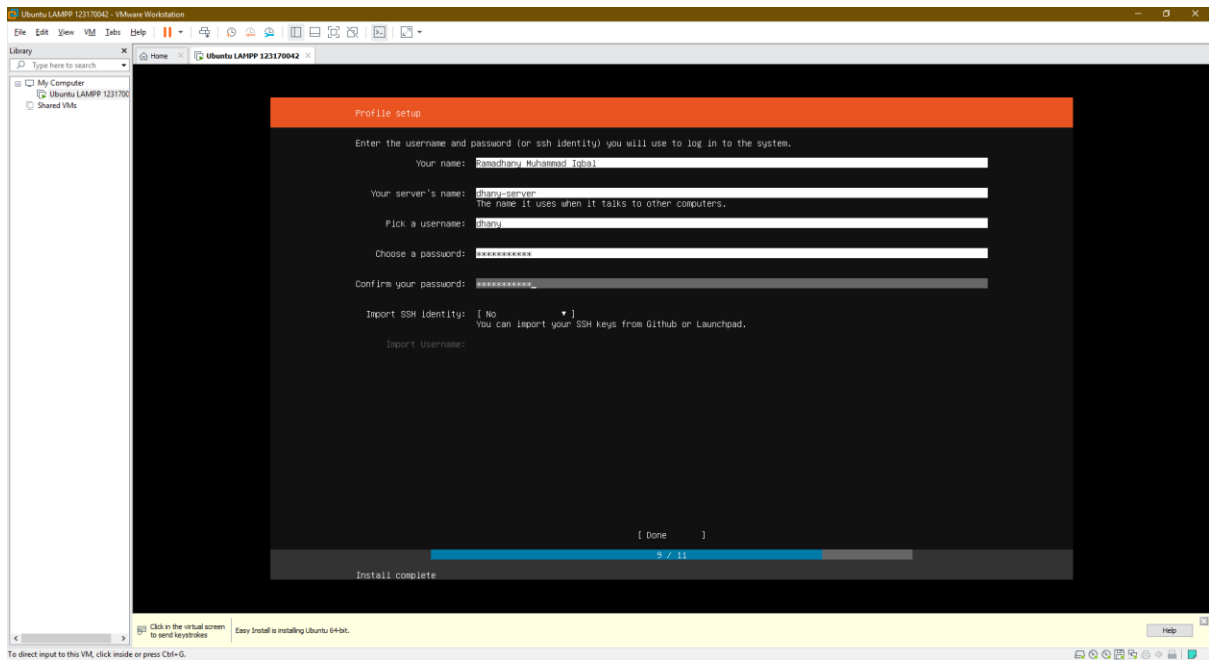


Karena menggunakan keseluruhan 20gb maka pilih use entire disk

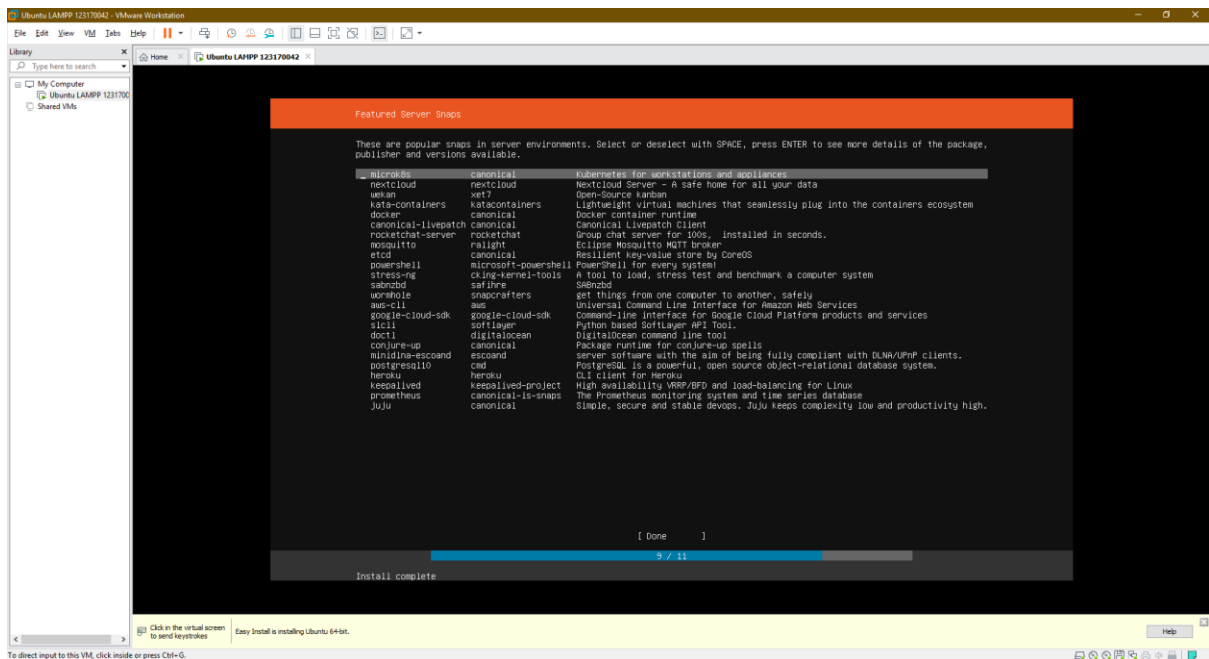


Sda=C:nya windows

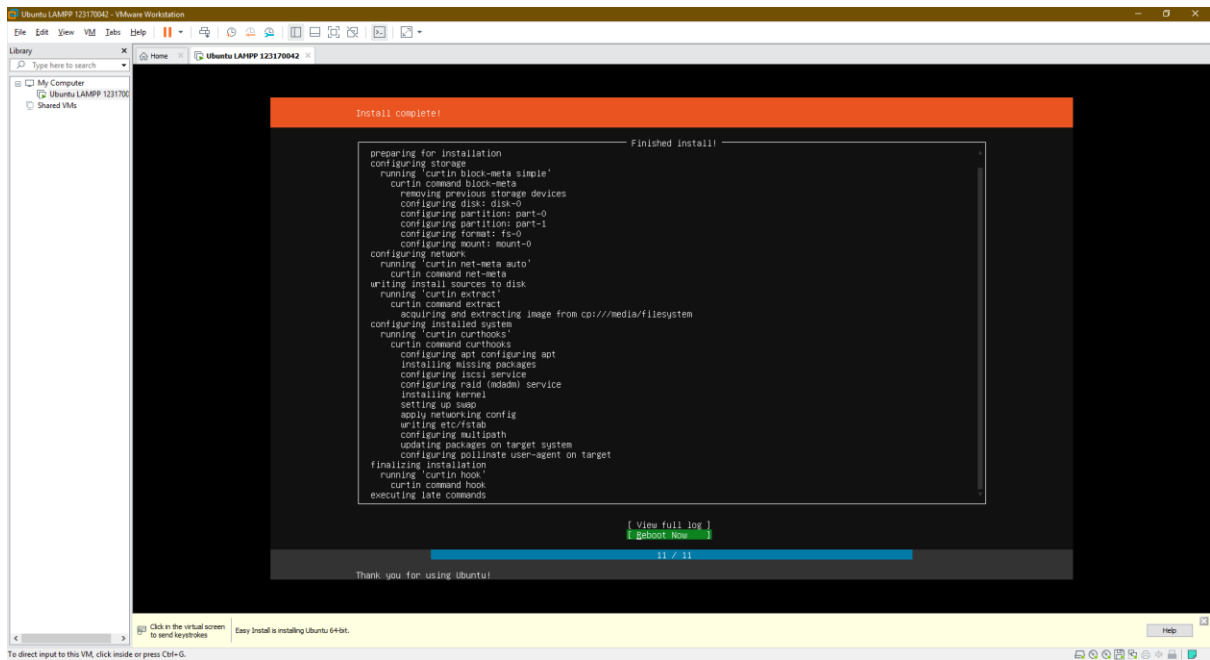




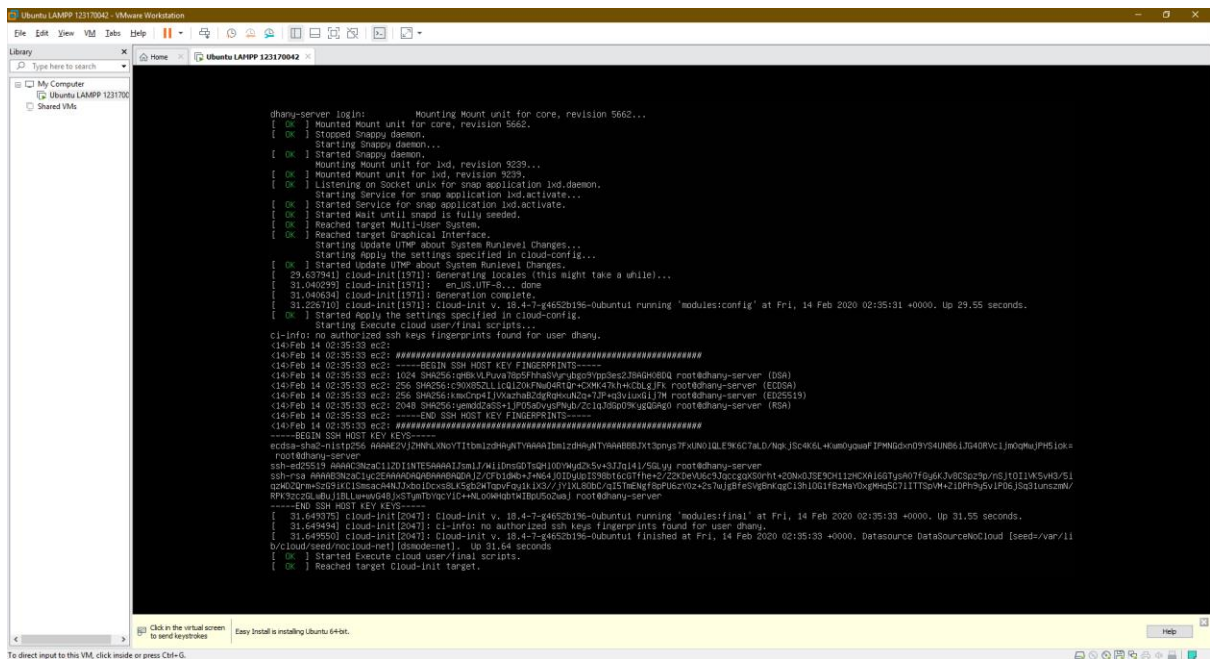
-pengaturan username password



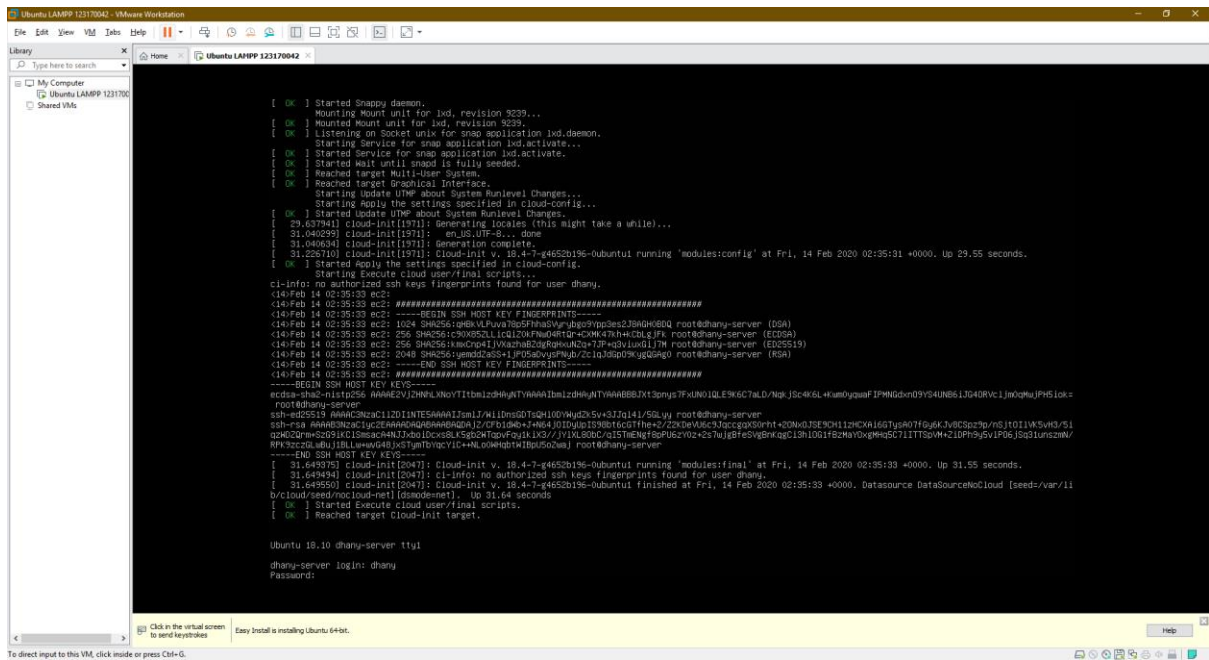
-instalasi aplikasi tambahan



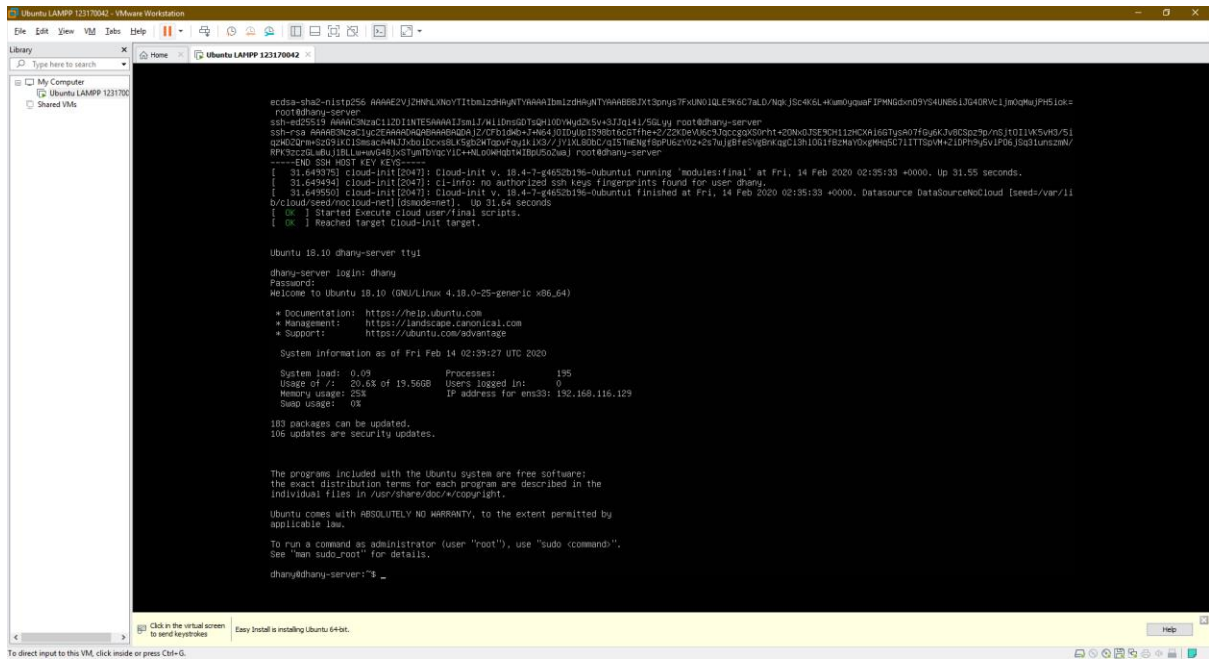
Apabila instalasi selesai akan muncul reboot now, pilih itu



Tunggu tampilan yang muncul ##### berarti proses telah selesai, apabila belum paksa restart melalui lambang panah sebelah lambang pause, pilih reset



Klik enter lalu login menggunakan username dan passwor dtadi

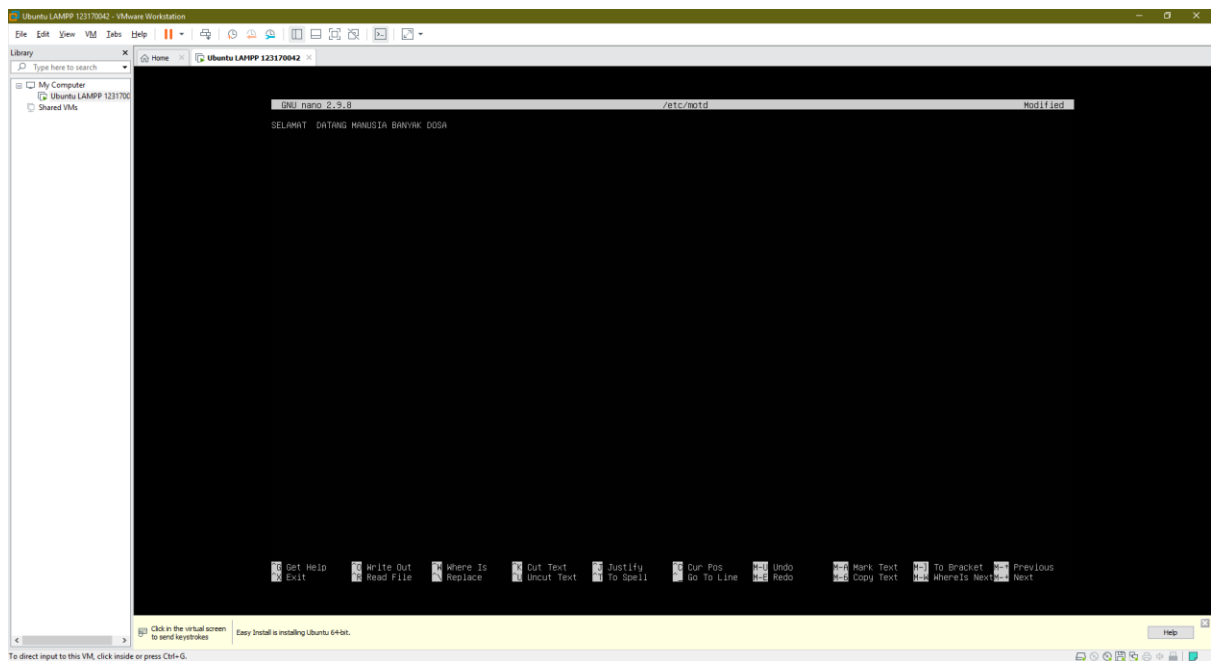
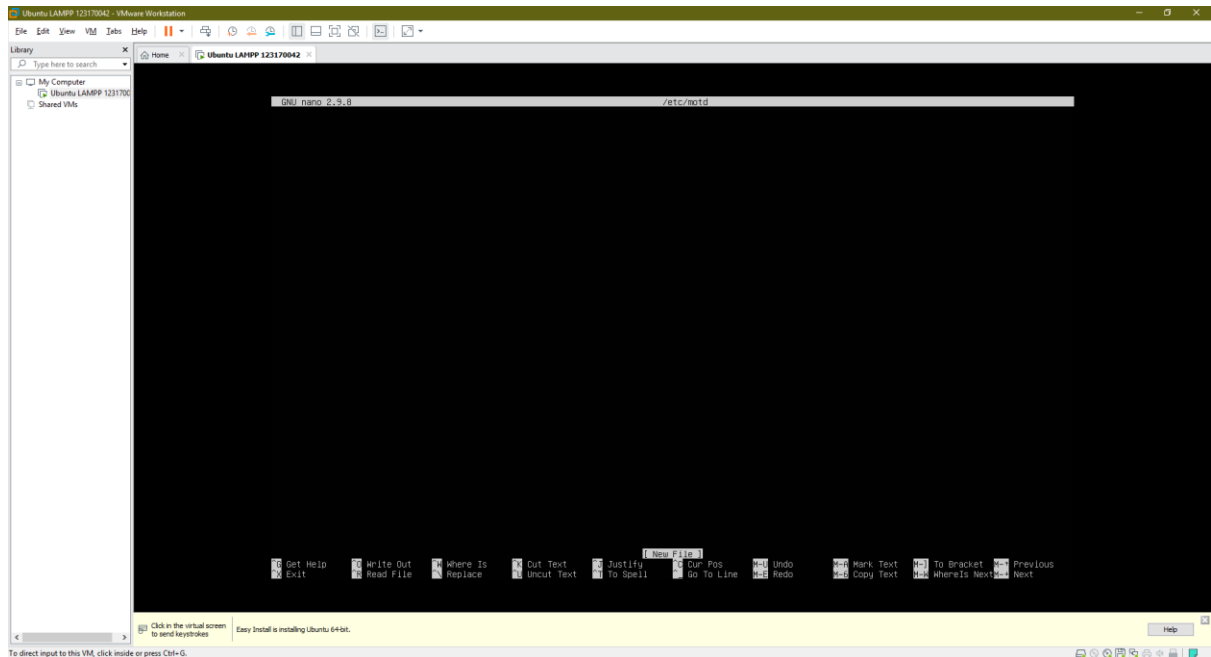


Tanda apabila login berhasil, namanya MOTD

Akun yang dibuat tadi merupakan akun standar dimana tidak semua akses dapat dieksekusi, untuk memiliki hak akses lengkap ketikkan “sudo su”, untuk kembali ke akun semula ketikkan exit. Di atas merupakan tampilan akun root

TAHAPAN mengubah motd

Nano /etc/motd

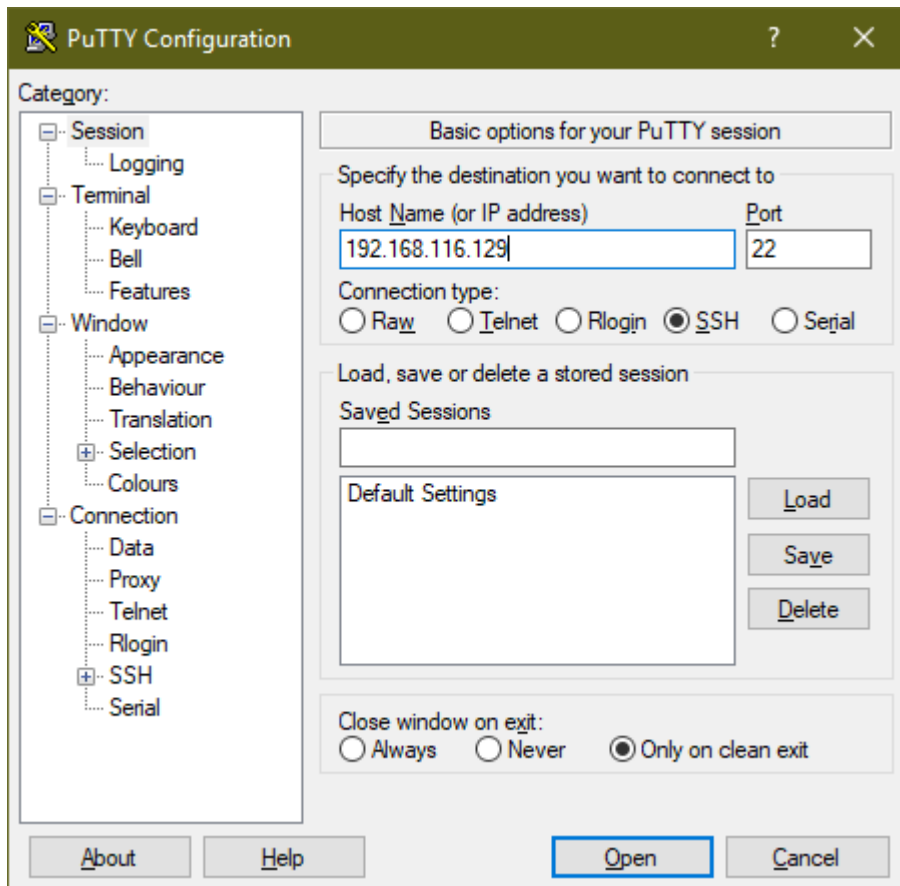


Save=ctrl+o->enter

Keluar=ctrl+x->enter

Menggunakan remote terminal

Buka putty



Ketikkan ip, lalu login

```

dhany@dhany-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.

SELAMAT DATANG MANUSIA BANYAK DOSA
Last login: Fri Feb 14 02:54:59 2020 from 192.168.116.1
dhany@dhany-server:~$ ls
dhany@dhany-server:~$ mkdir pertemuan-2
dhany@dhany-server:~$ ls -l
total 4
drwxrwxr-x 2 dhany dhany 4096 Feb 14 02:57 pertemuan-2
dhany@dhany-server:~$

```

1. Ls->tidak muncul apa"
2. Mkdir pertemuan-2->tidak muncul apa"

3. Ls -l ->muncul tampilan berisi total, username dan tanggal serta inputan setelah mkdir

```
dhany@dhany-server: ~  
Mac. Supports cloud-init for fast, local, cloud devops simulation.  
  
https://multipass.run/  
  
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dhany@dhany-server:~$ ls -l  
total 4  
drwxrwxr-x 2 dhany dhany 4096 Feb 14 02:57 pertemuan-2  
dhany@dhany-server:~$ cp -r pertemuan-2 pertemuan-1  
dhany@dhany-server:~$
```

4. Tidak tampil apa”

```
dhany@dhany-server: ~  
https://multipass.run/  
  
183 packages can be updated.  
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total 4  
drwxrwxr-x 2 dhany dhany 4096 Feb 14 02:57 pertemuan-2  
dhany@dhany-server:~$ cp -r pertemuan-2 pertemuan-1  
dhany@dhany-server:~$ ls  
pertemuan-1 pertemuan-2  
dhany@dhany-server:~$
```

5. Muncul tulisan pertemuan 1 pertemuan 2 dimana tulisan itu diketikkan di perintah sebelumnya setelah perintah cp

```
dhany@dhany-server: ~  
  
183 packages can be updated.  
106 updates are security updates.  
  
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dhany@dhany-server:~$ ls -l  
total 4  
drwxrwxr-x 2 dhany dhany 4096 Feb 14 02:57 pertemuan-2  
dhany@dhany-server:~$ cp -r pertemuan-2 pertemuan-1  
dhany@dhany-server:~$ ls  
pertemuan-1  pertemuan-2  
dhany@dhany-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"  
dhany@dhany-server:~$
```

6. Tidak muncul apa”

```
dhany@dhany-server: ~  
  
106 updates are security updates.  
  
Your Ubuntu release is not supported anymore.  
For upgrade information, please visit:  
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dhany@dhany-server:~$ cp -r pertemuan-2 pertemuan-1  
dhany@dhany-server:~$ ls  
pertemuan-1  pertemuan-2  
dhany@dhany-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"  
dhany@dhany-server:~$ ls  
pertemuan-1  'pertemuan 2 LAMPP'  
dhany@dhany-server:~$
```

7. Hampir sama seperti perintah ke 5 tetapi bagian pertemuan 2 beganti menjadi ‘pertemuan 2 LAMPP’


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

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dhany@dhany-server:~$ cp -r pertemuan-2 pertemuan-1
dhany@dhany-server:~$ ls
pertemuan-1  pertemuan-2
dhany@dhany-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
dhany@dhany-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
dhany@dhany-server:~$ cd "pertemuan 2 LAMPP"/
dhany@dhany-server:~/pertemuan 2 LAMPP$
```

8. Saat ditekan tab otomatis tertuju ke direktori pertemuan 2, lalu saat diter masuk ke direktori

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

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dhany@dhany-server:~$ ls
pertemuan-1  pertemuan-2
dhany@dhany-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
dhany@dhany-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
dhany@dhany-server:~$ cd "pertemuan 2 LAMPP"/
dhany@dhany-server:~/pertemuan 2 LAMPP$ nano biodata.txt
dhany@dhany-server:~/pertemuan 2 LAMPP$
```

9. Saat diter masuk ke nano

```
dhany@dhany-server: ~/pertemuan 2 LAMPP
login as: dhany
dhany@192.168.116.129's password:
Welcome to Ubuntu 18.10 (GNU/Linux 4.18.0-25-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Fri Feb 14 02:56:56 UTC 2020

System load:  0.12           Processes:      162
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%

 * 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/

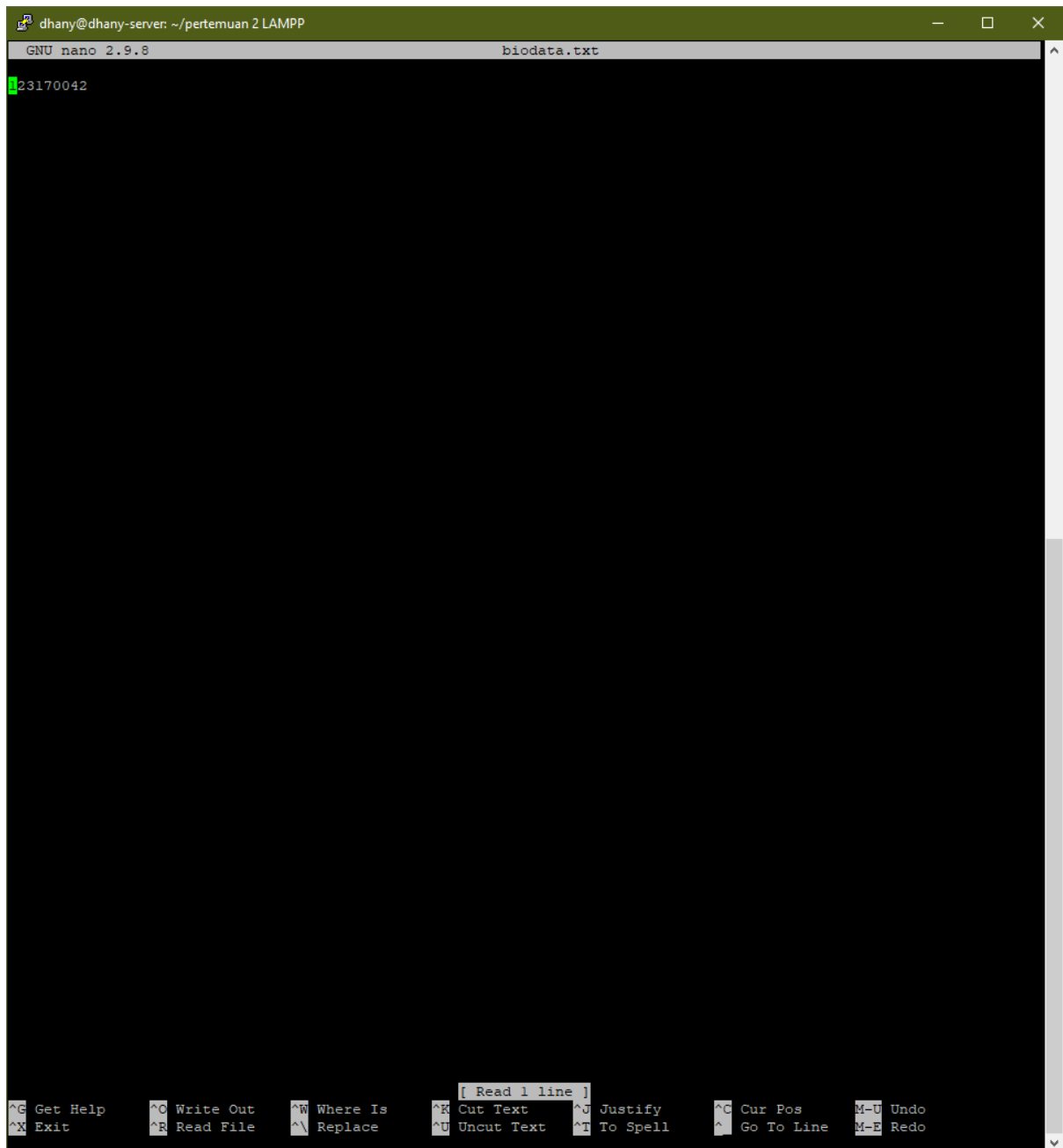
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dhany@dhany-server:~$ ls
pertemuan-1  pertemuan-2
dhany@dhany-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
dhany@dhany-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
dhany@dhany-server:~$ cd "pertemuan 2 LAMPP"/
dhany@dhany-server:~/pertemuan 2 LAMPP$ nano biodata.txt
dhany@dhany-server:~/pertemuan 2 LAMPP$ ls -l
total 4
-rw-rw-r-- 1 dhany dhany 10 Feb 14 03:07 biodata.txt
dhany@dhany-server:~/pertemuan 2 LAMPP$
```

10. Tampil username dan biodata.txt dimana disebutkan di perintah sebelumnya



```
dhany@dhany-server: ~/pertemuan 2 LAMPP
GNU nano 2.9.8 biodata.txt
23170042

[ Read 1 line ]
^G Get Help  ^O Write Out  ^W Where Is   ^K Cut Text   ^J Justify    ^C Cur Pos    M-U Undo
^X Exit      ^R Read File  ^\ Replace    ^U Uncut Text ^T To Spell   ^_ Go To Line  M-E Redo
```

Saat ditekan enter muncul nano dan tulisan yang diketikkan tadi saat mengisi

```
dhany@dhany-server: ~/pertemuan 2 LAMPP
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%

* 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.

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dhany@dhany-server:~$ ls
pertemuan-1  pertemuan-2
dhany@dhany-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
dhany@dhany-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
dhany@dhany-server:~$ cd "pertemuan 2 LAMPP"/
dhany@dhany-server:~/pertemuan 2 LAMPP$ nano biodata.txt
dhany@dhany-server:~/pertemuan 2 LAMPP$ ls -l
total 4
-rw-rw-r-- 1 dhany dhany 10 Feb 14 03:07 biodata.txt
dhany@dhany-server:~/pertemuan 2 LAMPP$ nano biodata.txt
dhany@dhany-server:~/pertemuan 2 LAMPP$ cat biodata.txt
123170042
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
dhany@dhany-server:~/pertemuan 2 LAMPP$
```

muncul tampilan yang tadi diketikkan pada nano

```
dhany@dhany-server: ~/pertemuan 2 LAMPP
Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
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dhany@dhany-server:~$ ls -l
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drwxrwxr-x 2 dhany dhany 4096 Feb 14 02:57 pertemuan-2
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dhany@dhany-server:~$ ls
pertemuan-1  pertemuan-2
dhany@dhany-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
dhany@dhany-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
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dhany@dhany-server:~/pertemuan 2 LAMPP$ nano biodata.txt
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total 4
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dhany@dhany-server:~/pertemuan 2 LAMPP$ nano biodata.txt
dhany@dhany-server:~/pertemuan 2 LAMPP$ cat biodata.txt
123170042
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
dhany@dhany-server:~/pertemuan 2 LAMPP$ tail biodata.txt
11
12
13
14
15
16
17
18
19
20
dhany@dhany-server:~/pertemuan 2 LAMPP$
```

Muncul sebagian/beberapabaris dari yang tadi diketiikkan pada nano