

Pengenalan VMWare Workstation dan Linux OS

Dias Galih Saputra 123170038

Hardware komputer lab -> OS -> aplikasi vmwarestation -> virtual OS

VMWarestation : digunakan untuk virtualisasi sistem operasi. Contoh yang dapat divirtualisasikan : cpu, ram, network adapter, hardisk, motherboard, vga, printer, dsb.

Pembuatan VM



Pilih yang custom (advanced) karena memiliki banyak pilihan. Kemudian klik next.

New Virtual Machine Wizard

Choose the Virtual Machine Hardware Compatibility
Which hardware features are needed for this virtual machine?

Virtual machine hardware compatibility

Hardware compatibility: Workstation 15.x

Compatible with: ☒ ESX Server

Compatible products:

- Fusion 11.x
- Workstation 15.x

Limitations:

- 64 GB memory
- 16 processors
- 10 network adapters
- 8 TB disk size
- 3 GB shared graphics memory

Help < Back Next > Cancel

Pilih Workstation 15.x karena paling compatible. Klik next.

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...

☐ I will install the operating system later.

The virtual machine will be created with a blank hard disk.

Help

< Back

Next >

Cancel

Pilih browse.

New Virtual Machine Wizard

Easy Install Information

This is used to install Ubuntu 64-bit.

Personalize Linux

Full name:

Ubuntu LAMPP 123170038

User name:

dias

Password:

••••

Confirm:

••••

Help

< Back

Next >

Cancel

Isi sembarang karena tidak support.

New Virtual Machine Wizard

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

Virtual machine name:
Ubuntu LAMPP 123170038

Location:
D:\VM-123170038\Ubuntu LAMPP [Browse...](#)

The default location can be changed at Edit > Preferences.

< Back Next > Cancel

Buat folder di D

New Virtual Machine Wizard

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

Processors

Number of processors: 2

Number of cores per processor: 1

Total processor cores: 2

Help < Back Next > Cancel

Gunakan prosesor 2, core 1.

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.

Memory for this virtual machine: 1024 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

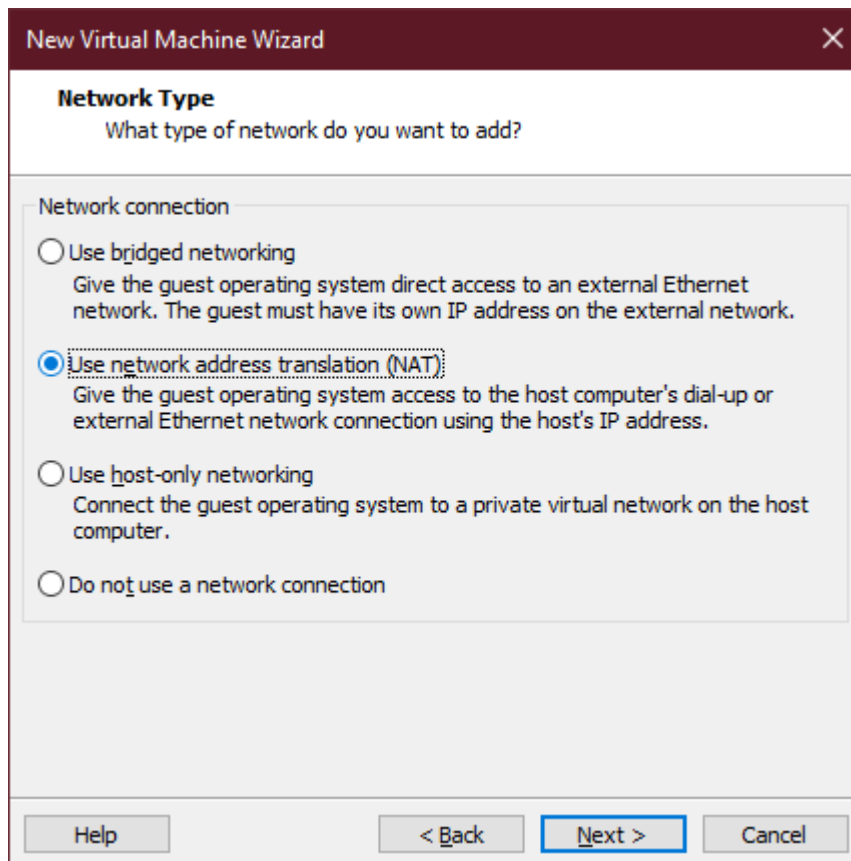
Maximum recommended memory: 2 GB

Recommended memory: 2 GB

Guest OS recommended minimum: 1 GB

Help < Back Next > Cancel

Pilih ram 1 GB agar tidak terlalu besar.



The image shows a screenshot of the 'New Virtual Machine Wizard' dialog box, specifically the 'Network Type' step. The title bar of the window is dark red with the text 'New Virtual Machine Wizard' and a close button (X) on the right. Below the title bar, the section is titled 'Network Type' with the subtitle 'What type of network do you want to add?'. The main area contains a group box labeled 'Network connection' which includes four radio button options: 'Use bridged networking' (unselected), 'Use network address translation (NAT)' (selected), 'Use host-only networking' (unselected), and 'Do not use a network connection' (unselected). Each option has a descriptive text below it. At the bottom of the dialog, there are four buttons: 'Help', '< Back', 'Next >' (which is highlighted with a blue border), and '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

Pilih NAT

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

Pilih yang recommended.

New Virtual Machine Wizard

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

Virtual disk type

☐ IDE

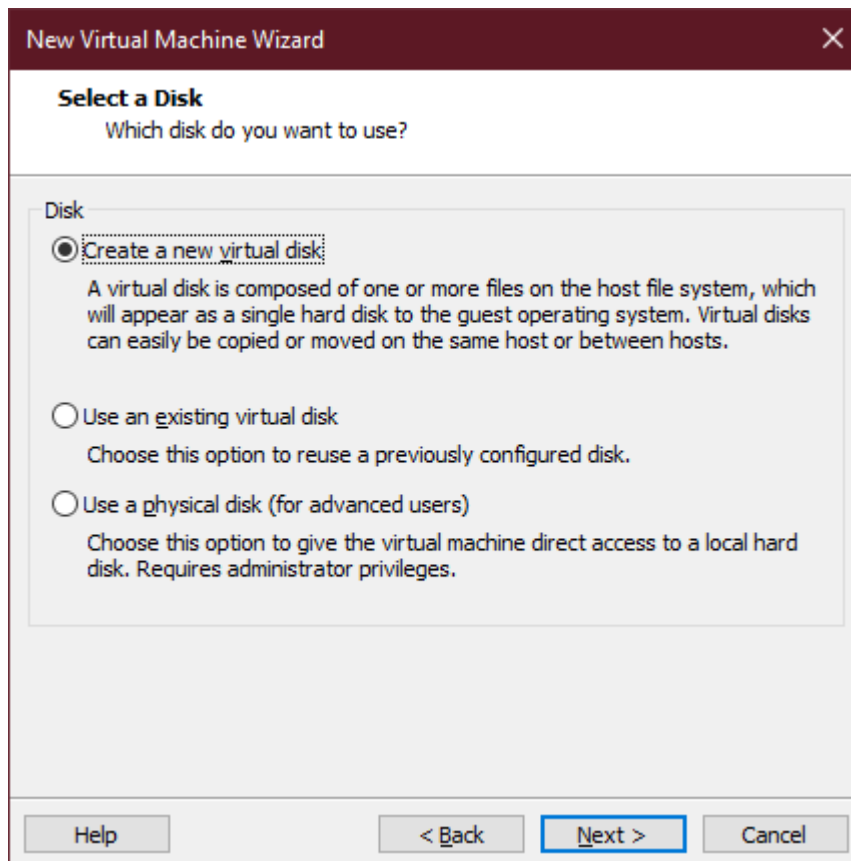
☒ SCSI (Recommended)

☐ SATA

☐ NVMe

Help < Back Next > Cancel

Pilih yang recommended.



The image shows a Windows-style dialog box titled "New Virtual Machine Wizard" with a close button (X) in the top right corner. The main heading is "Select a Disk" with the subtitle "Which disk do you want to use?". Below this, there is a section labeled "Disk" containing three radio button options. The first option, "Create a new virtual disk", is selected and has a descriptive paragraph below it: "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." The second option is "Use an existing virtual disk" with the description "Choose this option to reuse a previously configured disk." The third option is "Use a physical disk (for advanced users)" with the description "Choose this option to give the virtual machine direct access to a local hard disk. Requires administrator privileges." At the bottom of the dialog, there are four buttons: "Help", "< Back", "Next >" (which is highlighted with a blue border), and "Cancel".

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

Pilih create new.

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

Pilih yang split agar dapat dipindah dengan mudah

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.

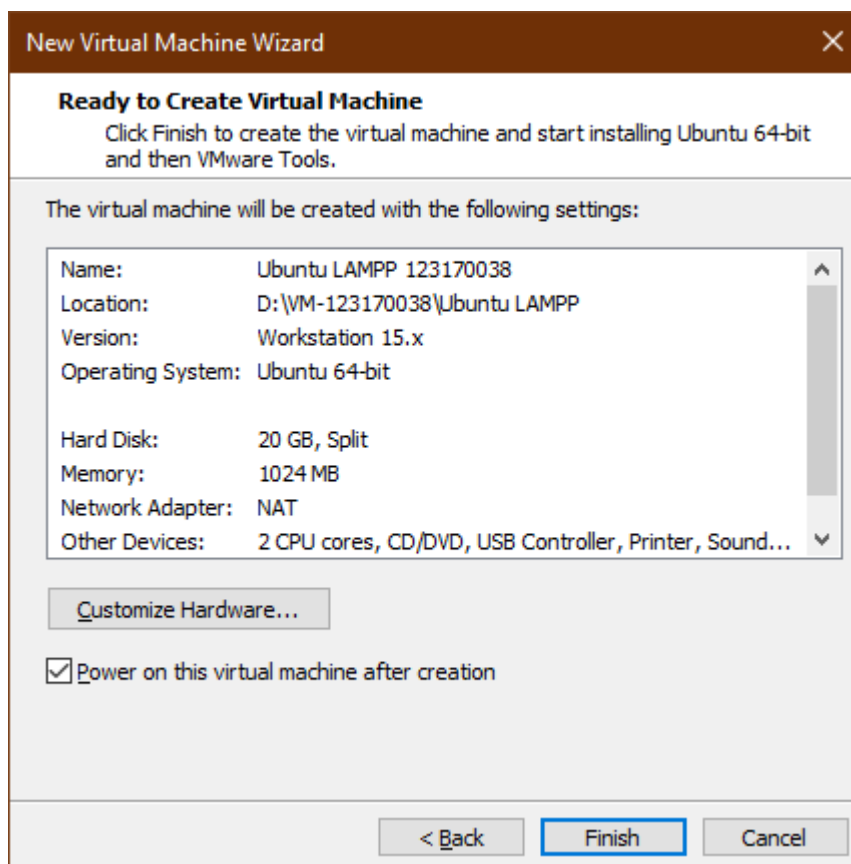
Help

< Back

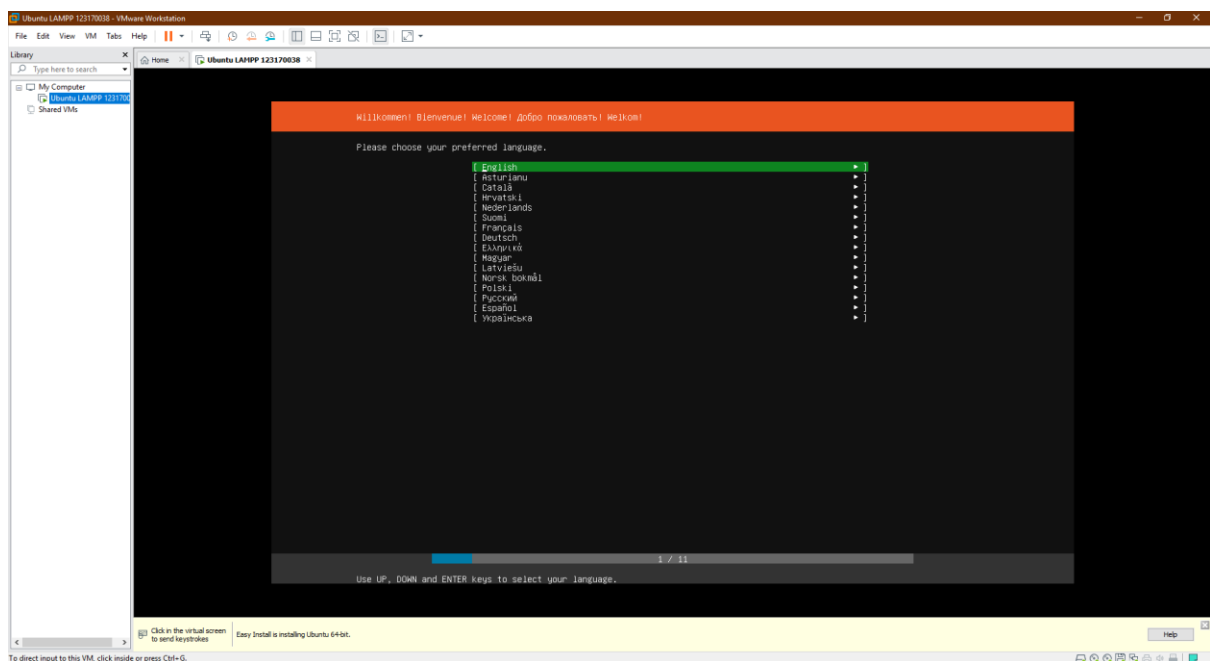
Next >

Cancel

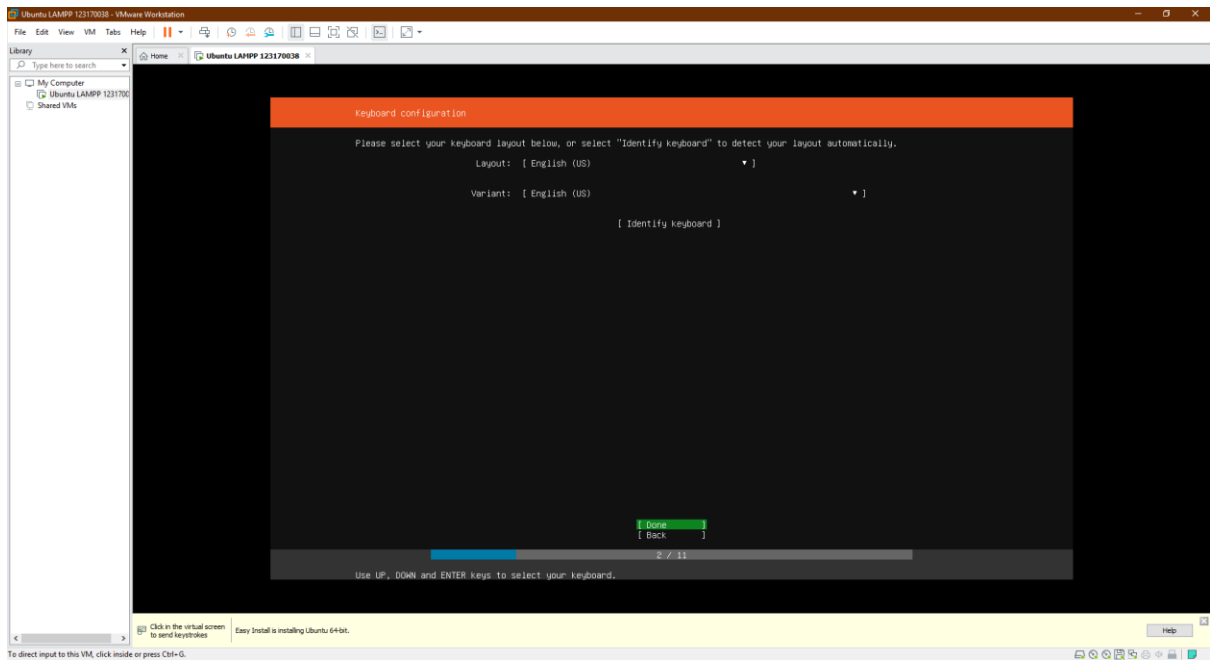
Klik next



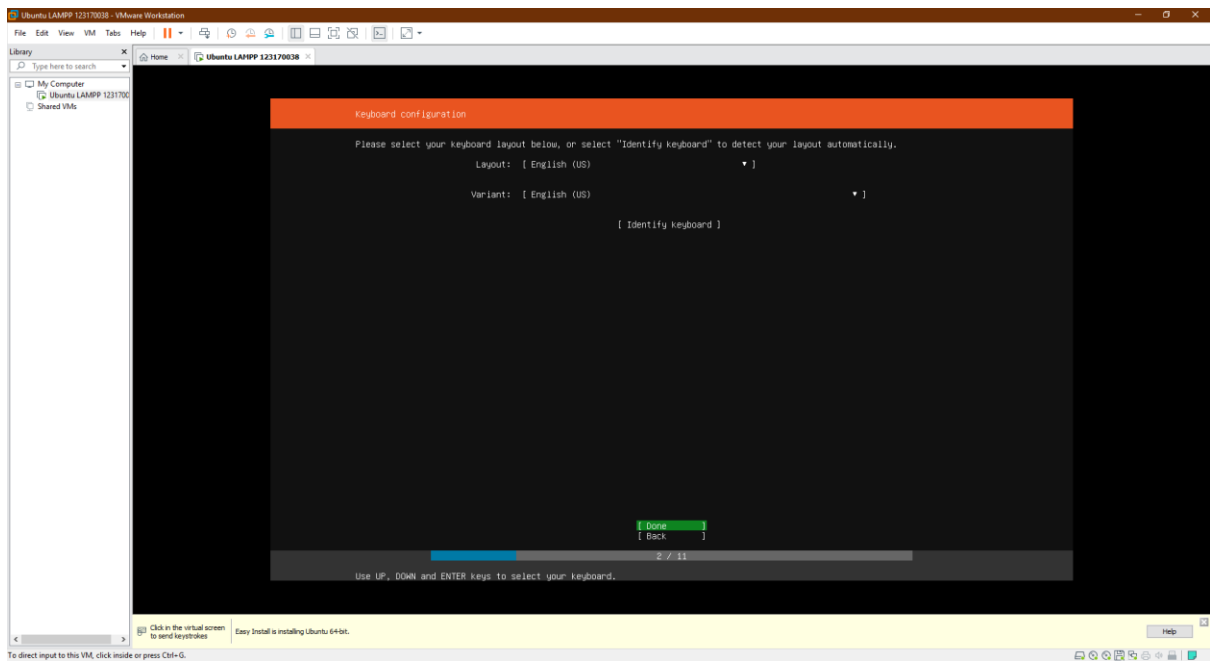
Klik finish



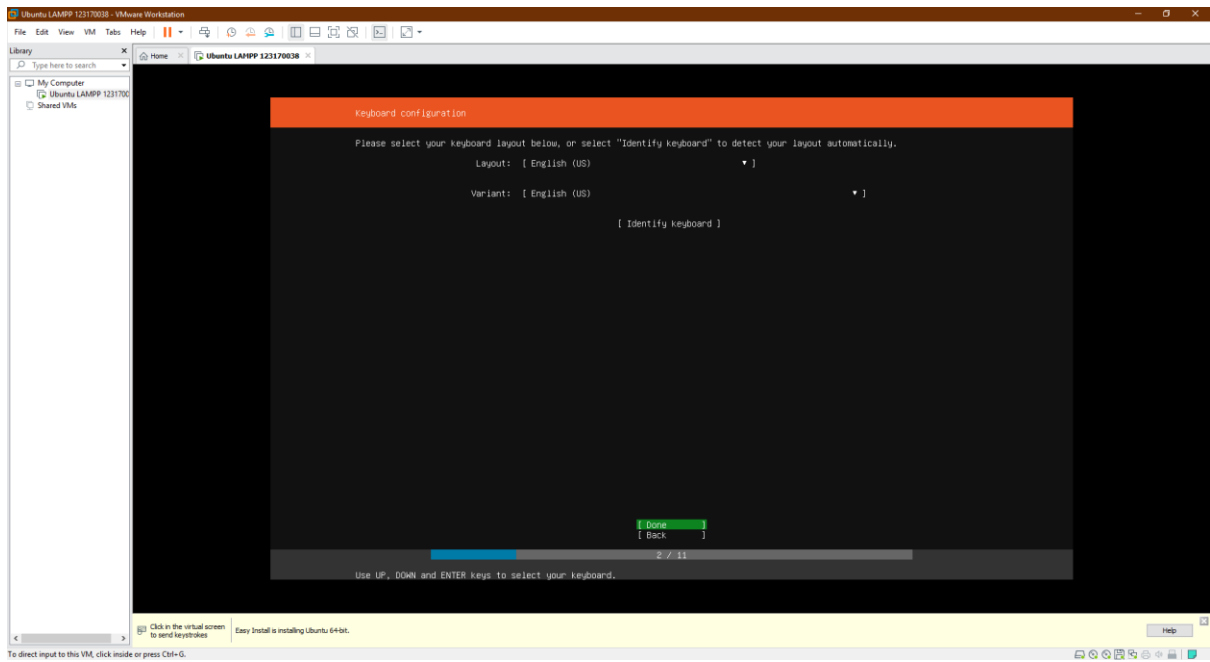
Klik di dalam VM agar dapat berinteraksi. Tekan ctrl + alt untuk keluar dari interaksi VM. Pilih bahasa inggris, tekan enter.



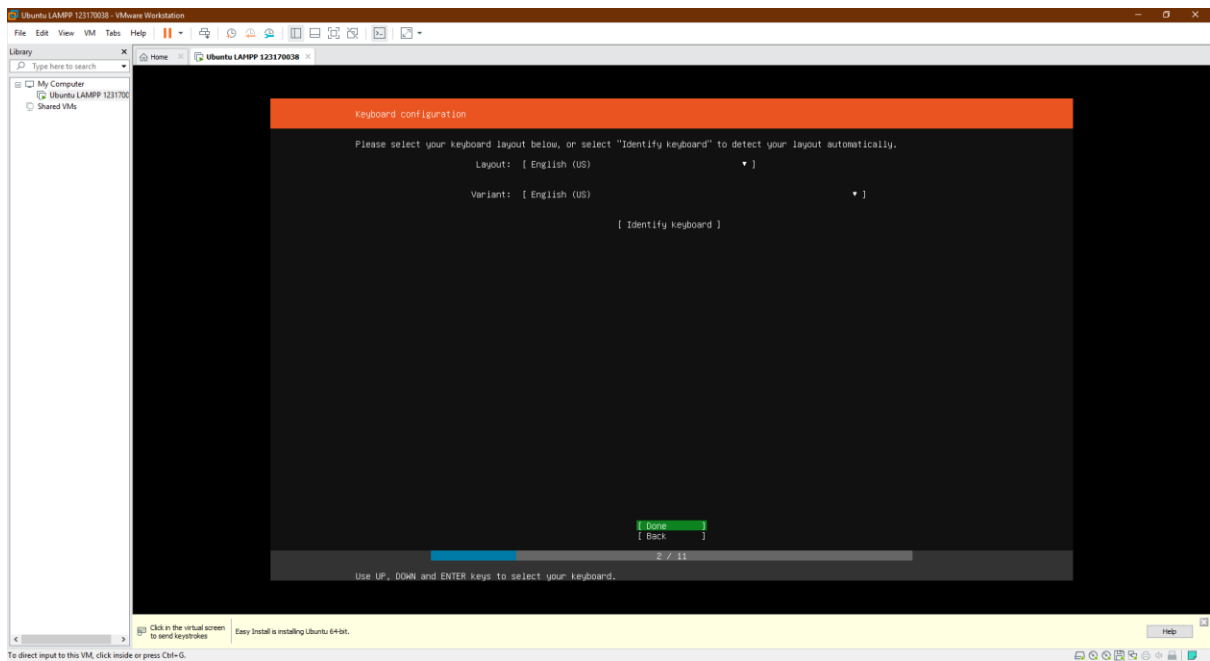
Biarkan default, pilih done.



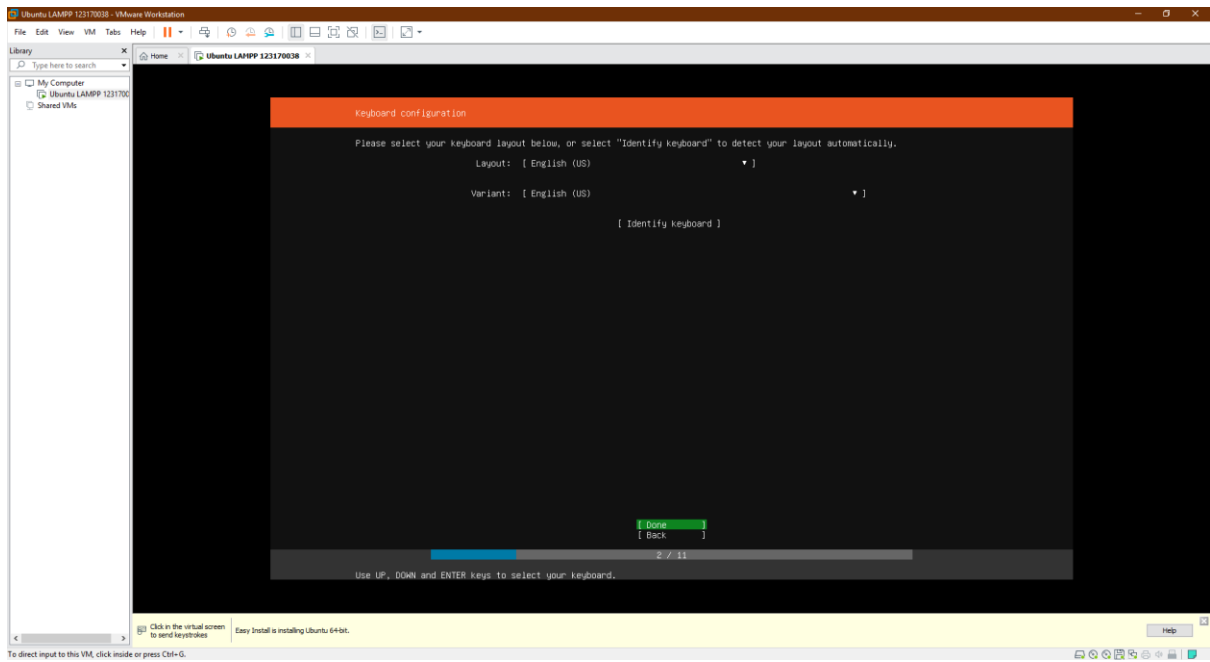
Pilih yang paling atas



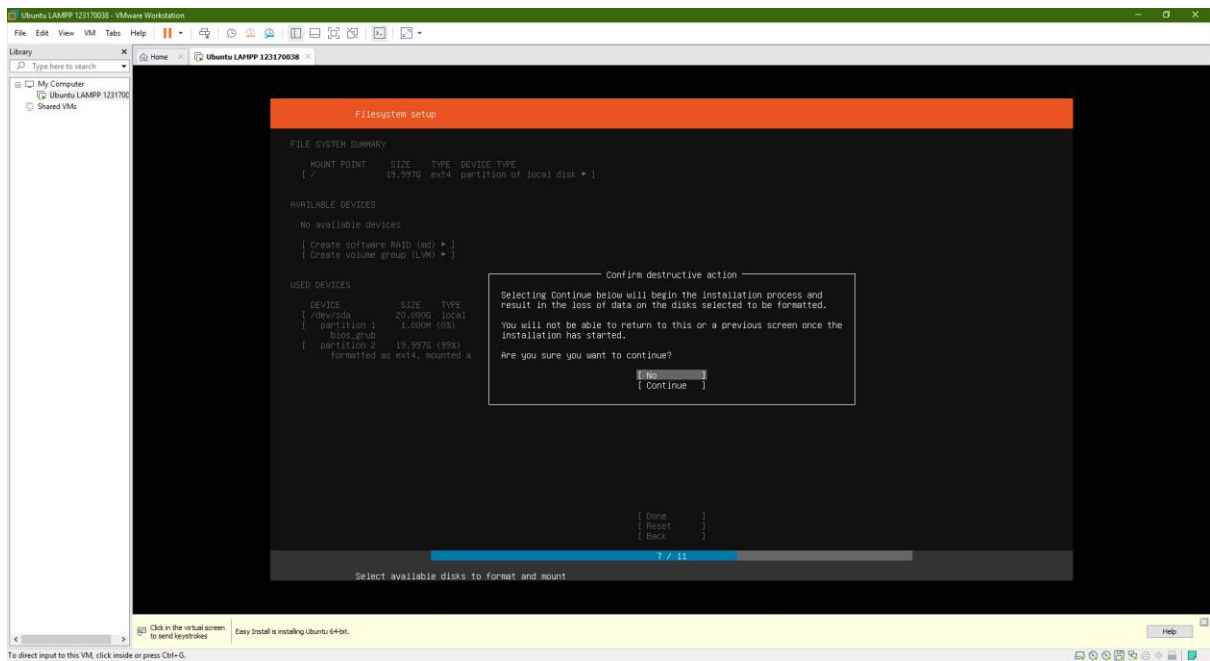
Klik done tanpa diubah-ubah

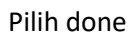


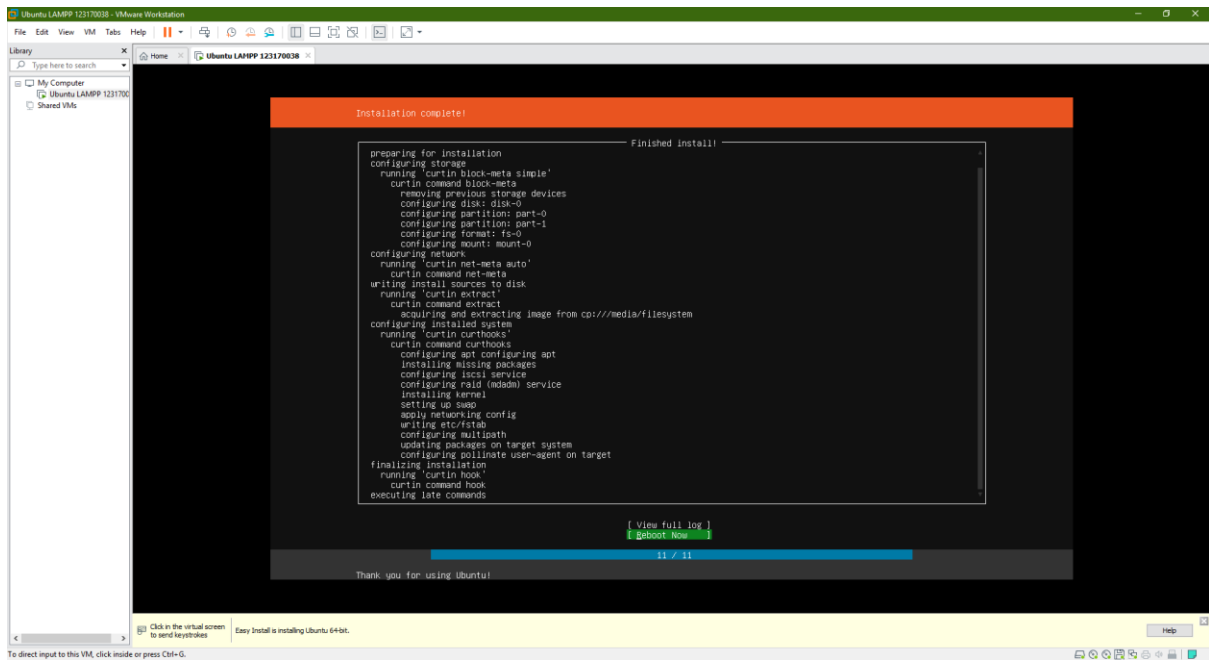
Done



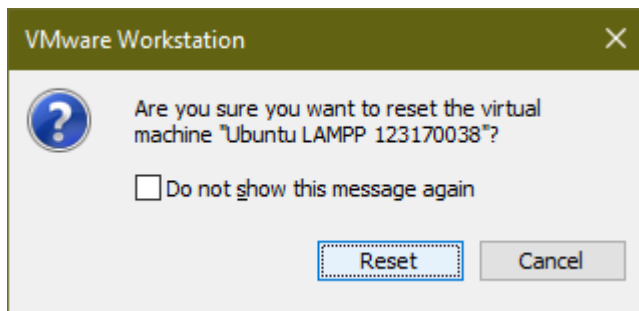
Done



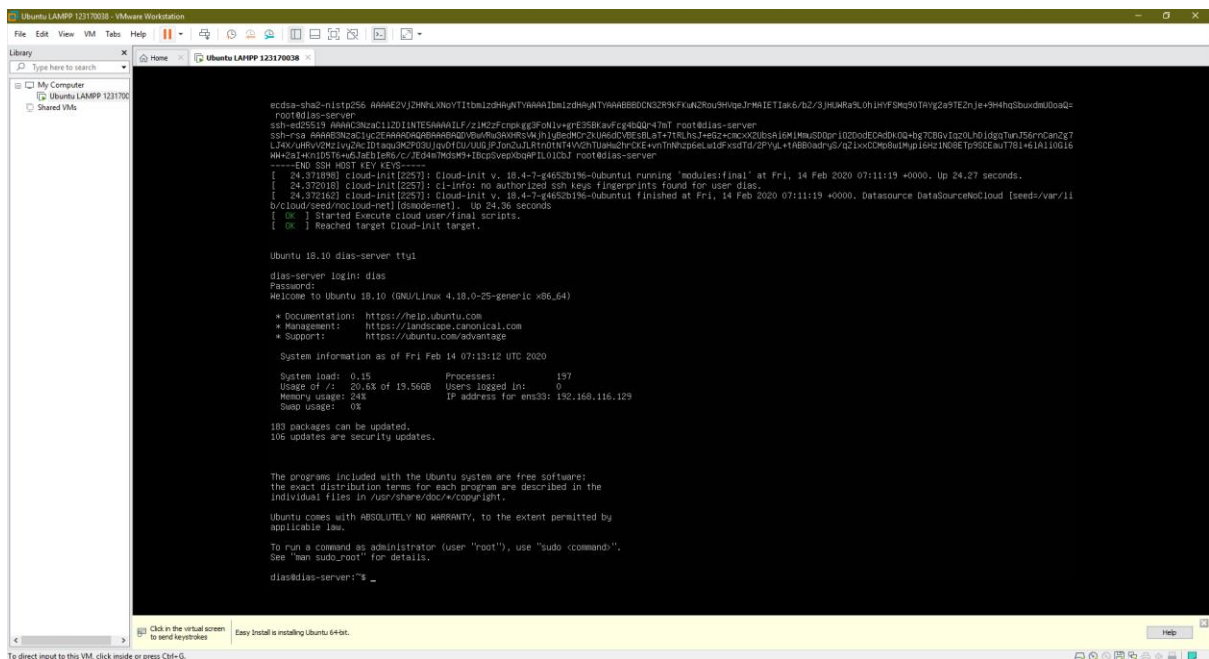




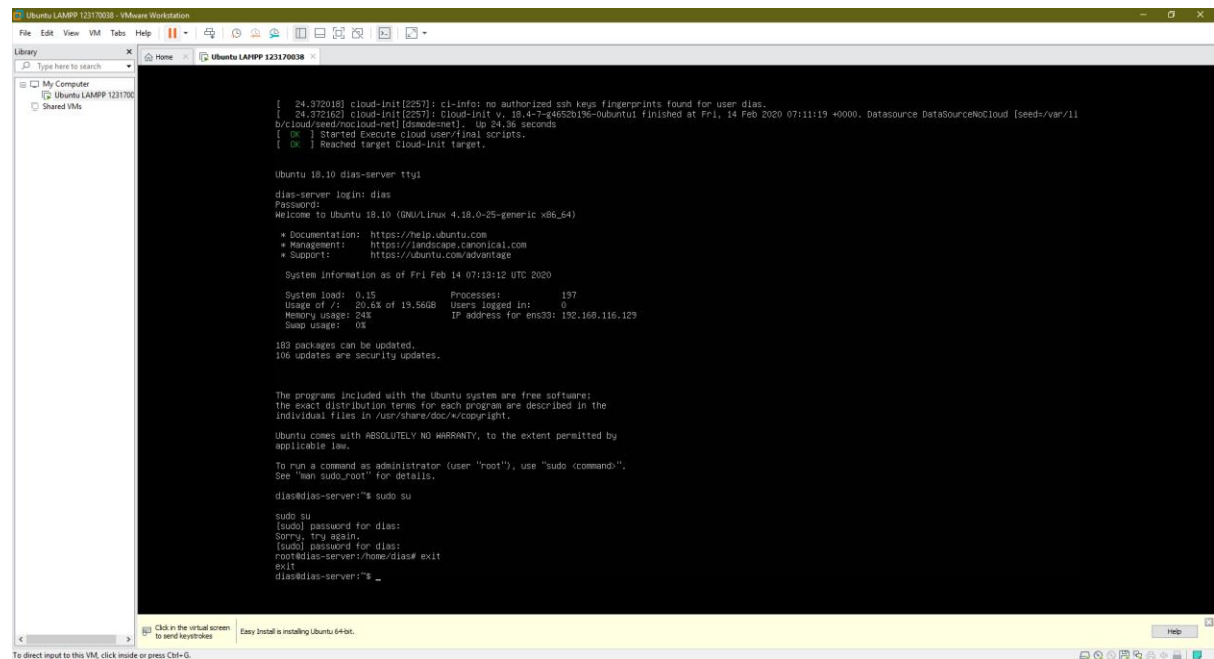
Tunggu jika belum selesai. Jika sudah selesai pilih reboot now.



Jika stag, klik tombol panah sebelah tombol pause, klik reset.



Tekan enter untuk memasukkan username dan password. Saat memasukkan password tidak ada tulisan feedback nya, tidak papa, tekan enter.



```
[ 24.372018] cloud-init[2257]: ci-info: no authorized ssh keys fingerprint found for user dias.
[ 24.372162] cloud-init[2257]: Cloud-init v. 18.4-7-94652b19e-ubuntu finished at Fri, 14 Feb 2020 07:11:19 +0000. DataSource DataSourceNoCloud [seed:/var/lib/cloud/seed/nocloud-net] (dsmoder-net). Up 24.38 seconds
[ OK ] Started Execute cloud user/final scripts.
[ OK ] Reached target Cloud-init target.

Ubuntu 18.10 dias-server tty1
dias-server login: dias
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 07:13:12 UTC 2020

System load: 0.15               Processes: 197
Usage of /: 20.6% of 19.56GB     Users logged in: 0
Memory usage: 24%              IP address for ens33: 192.168.116.129
Swap usage: 0%

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

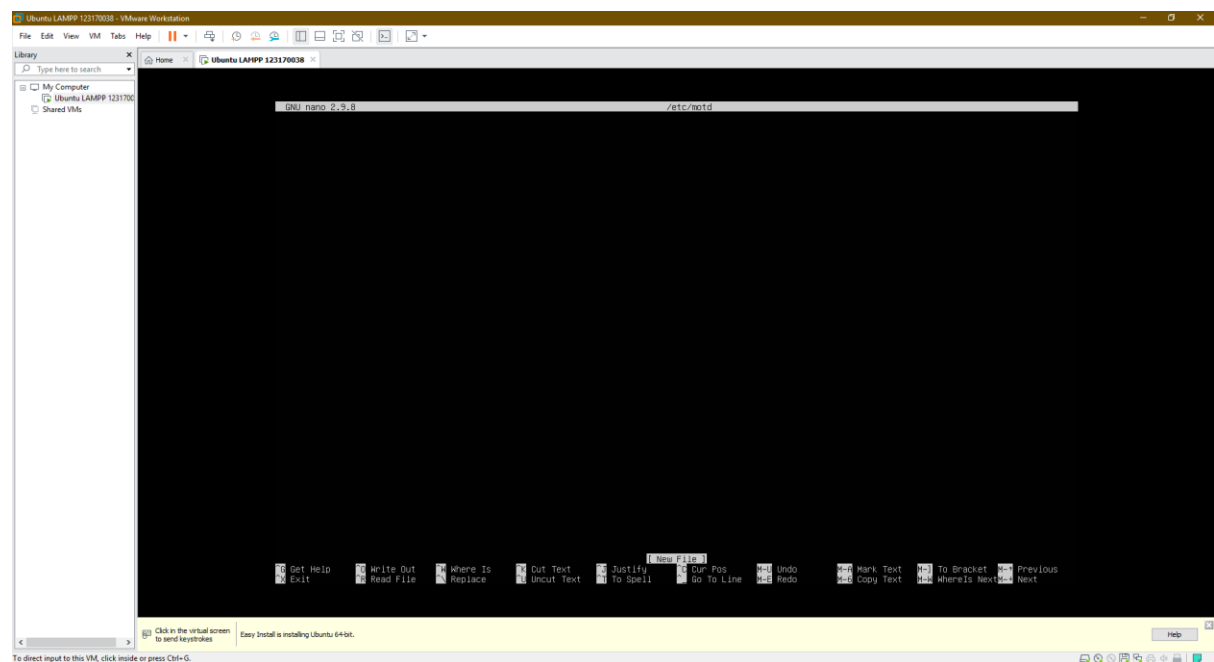
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

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.

dias@dias-server:~$ sudo su
sudo su
[sudo] password for dias:
Sorry, try again.
[sudo] password for dias:
root@dias-server:/home/dias# exit
exit
dias@dias-server:~$ _
```

Ketik “sudo su” untuk menjadi administrator. Cara kembali : ketik “exit”



```
GNU nano 2.9.8 /etc/motd

Get Help      Write Out    Where Is     Cut Text     Justify      Undo        Mark Text    To Bracket   Previous
Exit          Read File   Replace      Uncut Text   To Spell     Redo        Copy Text    WhereIs Next Next
```

Notepad. Masuk notepad dengan mengetikkan “nano /etc/motd” setelah masuk ke root.


```
dias@dias-server: ~  
* Support:      https://ubuntu.com/advantage  
  
System information as of Fri Feb 14 07:31:49 UTC 2020  
  
System load:  0.01          Processes:            170  
Usage of /:   20.7% 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.  
  
Last login: Fri Feb 14 07:13:12 2020  
dias@dias-server:~$ ls  
dias@dias-server:~$
```

Melihat file yang ada pada directory

2.

```
dias@dias-server: ~  
  
System information as of Fri Feb 14 07:31:49 UTC 2020  
  
System load:  0.01          Processes:            170  
Usage of /:   20.7% 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.  
  
Last login: Fri Feb 14 07:13:12 2020  
dias@dias-server:~$ ls  
dias@dias-server:~$ mkdir pertemuan-2  
dias@dias-server:~$
```

“make directory” bernama pertemuan-2

3.

```
dias@dias-server: ~  
System load: 0.01      Processes: 170  
Usage of /: 20.7% 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.  
  
Last login: Fri Feb 14 07:13:12 2020  
dias@dias-server:~$ ls  
dias@dias-server:~$ mkdir pertemuan-2  
dias@dias-server:~$ ls -l  
total 4  
drwxrwxr-x 2 dias dias 4096 Feb 14 07:34 pertemuan-2  
dias@dias-server:~$
```

Mengecek file

4.

```
dias@dias-server: ~  
Usage of /: 20.7% 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.  
  
Last login: Fri Feb 14 07:13:12 2020  
dias@dias-server:~$ ls  
dias@dias-server:~$ mkdir pertemuan-2  
dias@dias-server:~$ ls -l  
total 4  
drwxrwxr-x 2 dias dias 4096 Feb 14 07:34 pertemuan-2  
dias@dias-server:~$ cp -r pertemuan-2 pertemuan-1  
dias@dias-server:~$
```

Copy-paste pertemuan 2 ke file bernama pertemuan 1

5.

```
dias@dias-server: ~  
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.  
  
Last login: Fri Feb 14 07:13:12 2020  
dias@dias-server:~$ ls  
dias@dias-server:~$ mkdir pertemuan-2  
dias@dias-server:~$ ls -l  
total 4  
drwxrwxr-x 2 dias dias 4096 Feb 14 07:34 pertemuan-2  
dias@dias-server:~$ cp -r pertemuan-2 pertemuan-1  
dias@dias-server:~$ ls  
pertemuan-1  pertemuan-2  
dias@dias-server:~$
```

Melihat file yang ada pada directory

6.

```
dias@dias-server: ~  
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.  
  
Last login: Fri Feb 14 07:13:12 2020  
dias@dias-server:~$ ls  
dias@dias-server:~$ mkdir pertemuan-2  
dias@dias-server:~$ ls -l  
total 4  
drwxrwxr-x 2 dias dias 4096 Feb 14 07:34 pertemuan-2  
dias@dias-server:~$ cp -r pertemuan-2 pertemuan-1  
dias@dias-server:~$ ls  
pertemuan-1  pertemuan-2  
dias@dias-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"  
dias@dias-server:~$
```

Mengedit nama file "pertemuan 2" menjadi "pertemuan 2 LAMPP"

7.

```
dias@dias-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.

Last login: Fri Feb 14 07:13:12 2020
dias@dias-server:~$ ls
dias@dias-server:~$ mkdir pertemuan-2
dias@dias-server:~$ ls -l
total 4
drwxrwxr-x 2 dias dias 4096 Feb 14 07:34 pertemuan-2
dias@dias-server:~$ cp -r pertemuan-2 pertemuan-1
dias@dias-server:~$ ls
pertemuan-1  pertemuan-2
dias@dias-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
dias@dias-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
dias@dias-server:~$
```

Mengecek file pada directory. Terlihat bahwa file pertemuan 2 sudah berubah menjadi pertemuan 2 LAMPP

8.

```
dias@dias-server: ~/pertemuan 2 LAMPP
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.

Last login: Fri Feb 14 07:13:12 2020
dias@dias-server:~$ ls
dias@dias-server:~$ mkdir pertemuan-2
dias@dias-server:~$ ls -l
total 4
drwxrwxr-x 2 dias dias 4096 Feb 14 07:34 pertemuan-2
dias@dias-server:~$ cp -r pertemuan-2 pertemuan-1
dias@dias-server:~$ ls
pertemuan-1  pertemuan-2
dias@dias-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
dias@dias-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
dias@dias-server:~$ cd "pertemuan 2 LAMPP"/
dias@dias-server:~/pertemuan 2 LAMPP$
```

Masuk ke file pertemuan 2 LAMPP

9.

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

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.

Last login: Fri Feb 14 07:13:12 2020
dias@dias-server:~$ ls
dias@dias-server:~$ mkdir pertemuan-2
dias@dias-server:~$ ls -l
total 4
drwxrwxr-x 2 dias dias 4096 Feb 14 07:34 pertemuan-2
dias@dias-server:~$ cp -r pertemuan-2 pertemuan-1
dias@dias-server:~$ ls
pertemuan-1  pertemuan-2
dias@dias-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
dias@dias-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
dias@dias-server:~$ cd "pertemuan 2 LAMPP"/
dias@dias-server:~/pertemuan 2 LAMPP$ nano biodata.txt
dias@dias-server:~/pertemuan 2 LAMPP$
```

Masuk ke nano untuk menulis biodata kemudian menyimpan dengan ctrl+o dan keluar dengan ctrl+x

10.

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

http://www.ubuntu.com/releaseendoflife

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

Last login: Fri Feb 14 07:13:12 2020
dias@dias-server:~$ ls
dias@dias-server:~$ mkdir pertemuan-2
dias@dias-server:~$ ls -l
total 4
drwxrwxr-x 2 dias dias 4096 Feb 14 07:34 pertemuan-2
dias@dias-server:~$ cp -r pertemuan-2 pertemuan-1
dias@dias-server:~$ ls
pertemuan-1  pertemuan-2
dias@dias-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
dias@dias-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
dias@dias-server:~$ cd "pertemuan 2 LAMPP"/
dias@dias-server:~/pertemuan 2 LAMPP$ nano biodata.txt
dias@dias-server:~/pertemuan 2 LAMPP$ ls -l
total 4
-rw-rw-r-- 1 dias dias 10 Feb 14 07:39 biodata.txt
dias@dias-server:~/pertemuan 2 LAMPP$
```

Mengecek file pada folder pertemuan 2 LAMPP. Terdapat file biodata.txt yang telah dibuat pada langkah sebelumnya.

11.

```
dias@dias-server: ~/pertemuan 2 LAMPP
New release '19.10' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Fri Feb 14 07:13:12 2020
dias@dias-server:~$ ls
dias@dias-server:~$ mkdir pertemuan-2
dias@dias-server:~$ ls -l
total 4
drwxrwxr-x 2 dias dias 4096 Feb 14 07:34 pertemuan-2
dias@dias-server:~$ cp -r pertemuan-2 pertemuan-1
dias@dias-server:~$ ls
pertemuan-1  pertemuan-2
dias@dias-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
dias@dias-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
dias@dias-server:~$ cd "pertemuan 2 LAMPP"/
dias@dias-server:~/pertemuan 2 LAMPP$ nano biodata.txt
dias@dias-server:~/pertemuan 2 LAMPP$ ls -l
total 4
-rw-rw-r-- 1 dias dias 10 Feb 14 07:39 biodata.txt
dias@dias-server:~/pertemuan 2 LAMPP$ cat biodata.txt
123170038
dias@dias-server:~/pertemuan 2 LAMPP$
```

Melihat isi dari file biodata.txt

12.

```
dias@dias-server: ~/pertemuan 2 LAMPP
Run 'do-release-upgrade' to upgrade to it.

Last login: Fri Feb 14 07:13:12 2020
dias@dias-server:~$ ls
dias@dias-server:~$ mkdir pertemuan-2
dias@dias-server:~$ ls -l
total 4
drwxrwxr-x 2 dias dias 4096 Feb 14 07:34 pertemuan-2
dias@dias-server:~$ cp -r pertemuan-2 pertemuan-1
dias@dias-server:~$ ls
pertemuan-1  pertemuan-2
dias@dias-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
dias@dias-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
dias@dias-server:~$ cd "pertemuan 2 LAMPP"/
dias@dias-server:~/pertemuan 2 LAMPP$ nano biodata.txt
dias@dias-server:~/pertemuan 2 LAMPP$ ls -l
total 4
-rw-rw-r-- 1 dias dias 10 Feb 14 07:39 biodata.txt
dias@dias-server:~/pertemuan 2 LAMPP$ cat biodata.txt
123170038
dias@dias-server:~/pertemuan 2 LAMPP$ nano biodata.txt
dias@dias-server:~/pertemuan 2 LAMPP$
```

Menambahkan angka 1-20 secara menurun di bawah nim.

13.

```
dias@dias-server: ~/pertemuan 2 LAMPP
dias@dias-server:~/pertemuan 2 LAMPP$ nano biodata.txt
dias@dias-server:~/pertemuan 2 LAMPP$ cat biodata.txt
123170038
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
dias@dias-server:~/pertemuan 2 LAMPP$
```

Melihat isi dari file biodata.txt. isi telah berubah karena sudah diedit pada langkah sebelumnya.

14.

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

Melihat sebagian isi dari file biodata.txt (bagian akhir) sesuai dengan namanya yaitu tail (ekor).