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Kelas: Praktikum TCC (C)

Pengenalan VMware Workstation dan Linux OS

VMware workstation digunakan untuk virtualisasi sistem operasi.

1. Fasilitas Swapping

Digunakan untuk menjalankan VM apabila RAM komputer tidak memadai

2. Memperbaiki port pada XAMPP

VMware akan menggunakan port 443 yang umumnya digunakan oleh apache, cara memperbaiki dengan buka Edit -> Preference -> Share Vms -> Disable

Linux OS

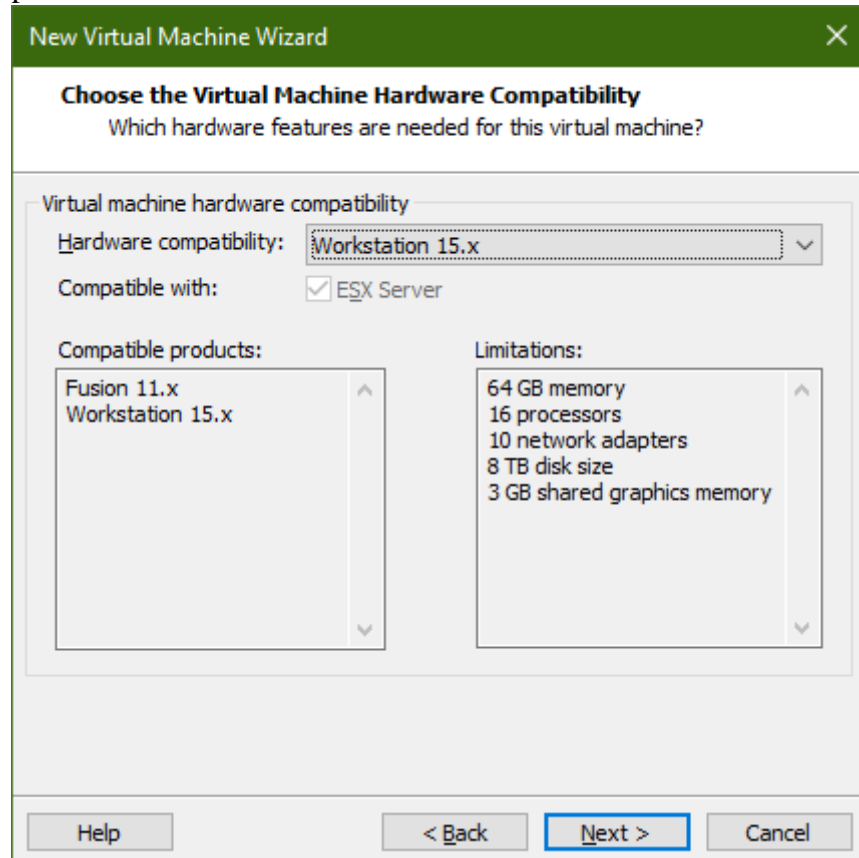
Cek ISO Library buka C->ISO Library

Membuat VM

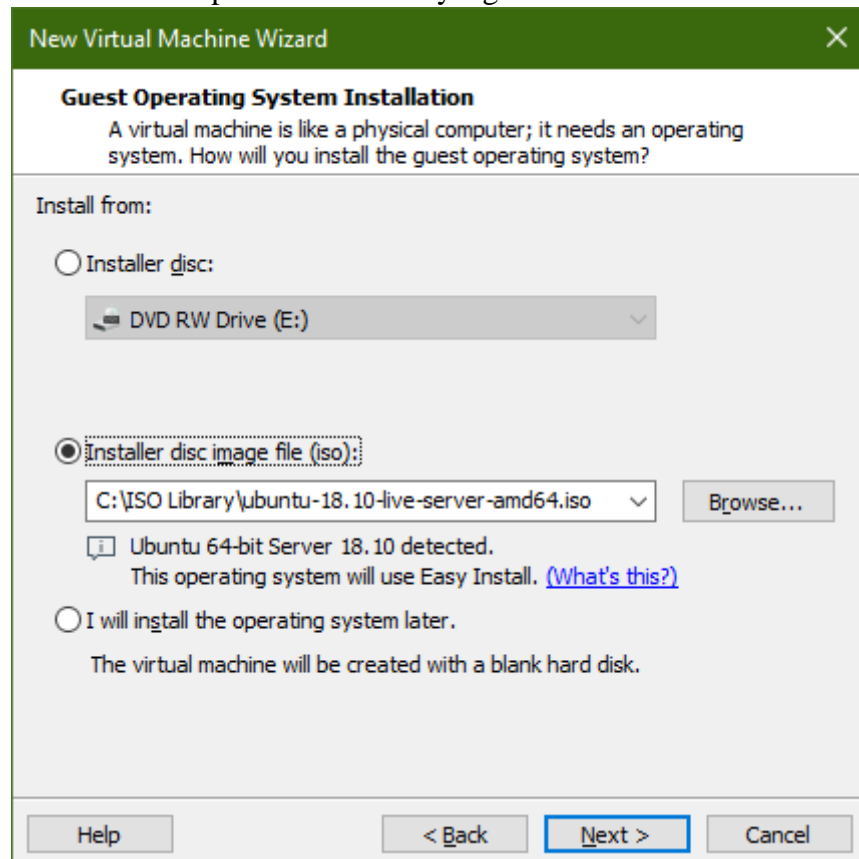
- a. Create a new virtual machine
- b. Pilih custom(advanced)



- c. Pilih kompatibilitas hardware



- d. Pilih berkas ISO sistem operasi untuk VM yang akan dibuat



- e. Mengisi easy install information

New Virtual Machine Wizard [Close]

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

Personalize Linux

Full name:

User name:

Password:

Confirm:

- f. Membuat nama VM dan folder baru

New Virtual Machine Wizard [Close]

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.

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

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

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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

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Cancel

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

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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 dengan OS yang diinstall

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 membuat sebelumnya maka dipilih yang create a new virtual disk.

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

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Cancel

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.

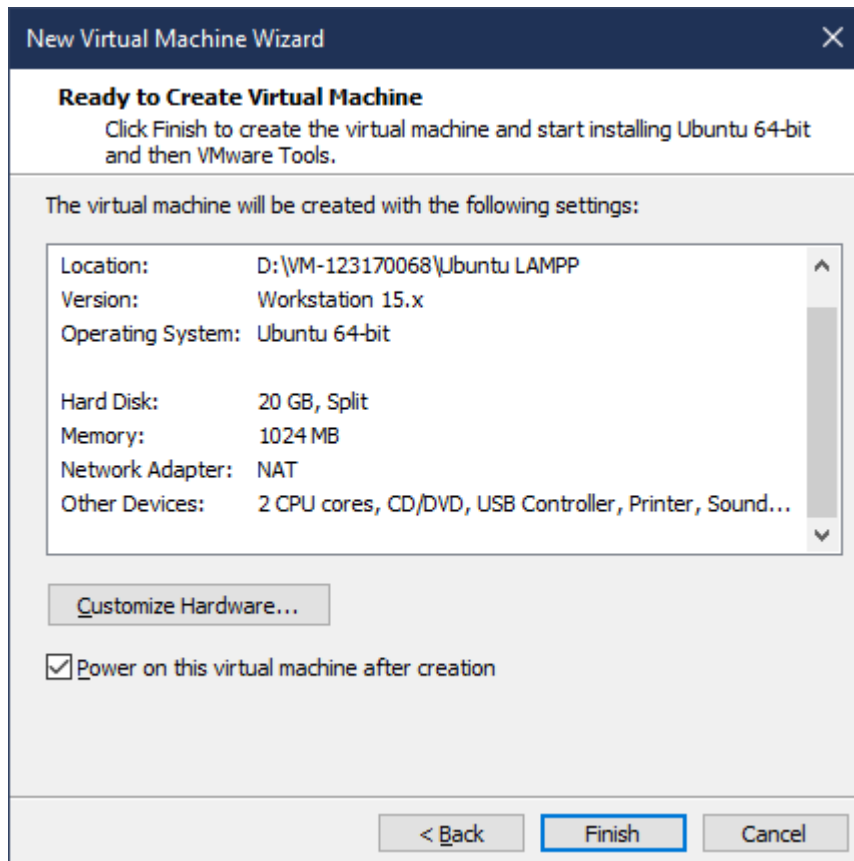
Browse...

Help

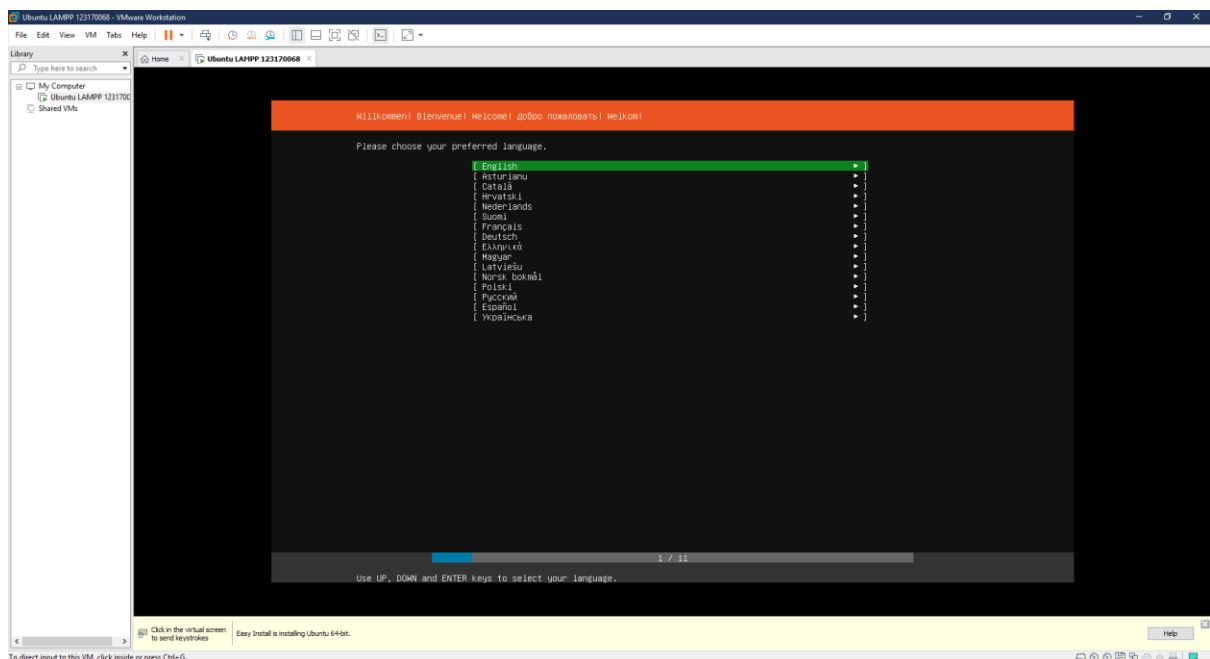
< Back

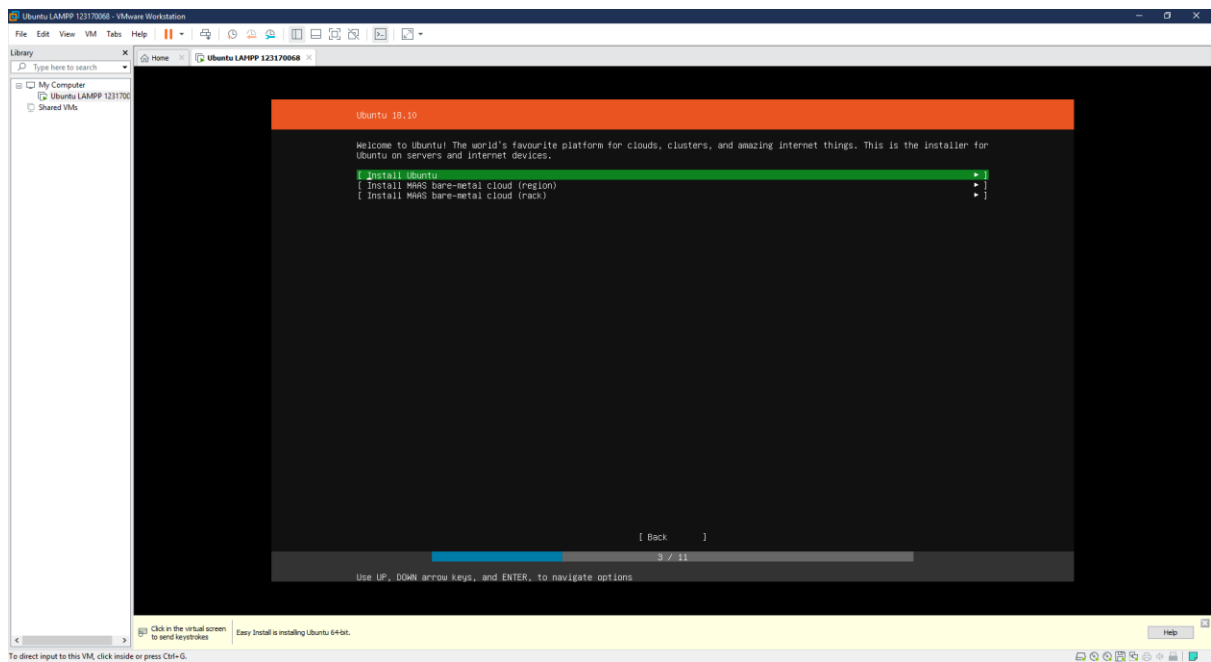
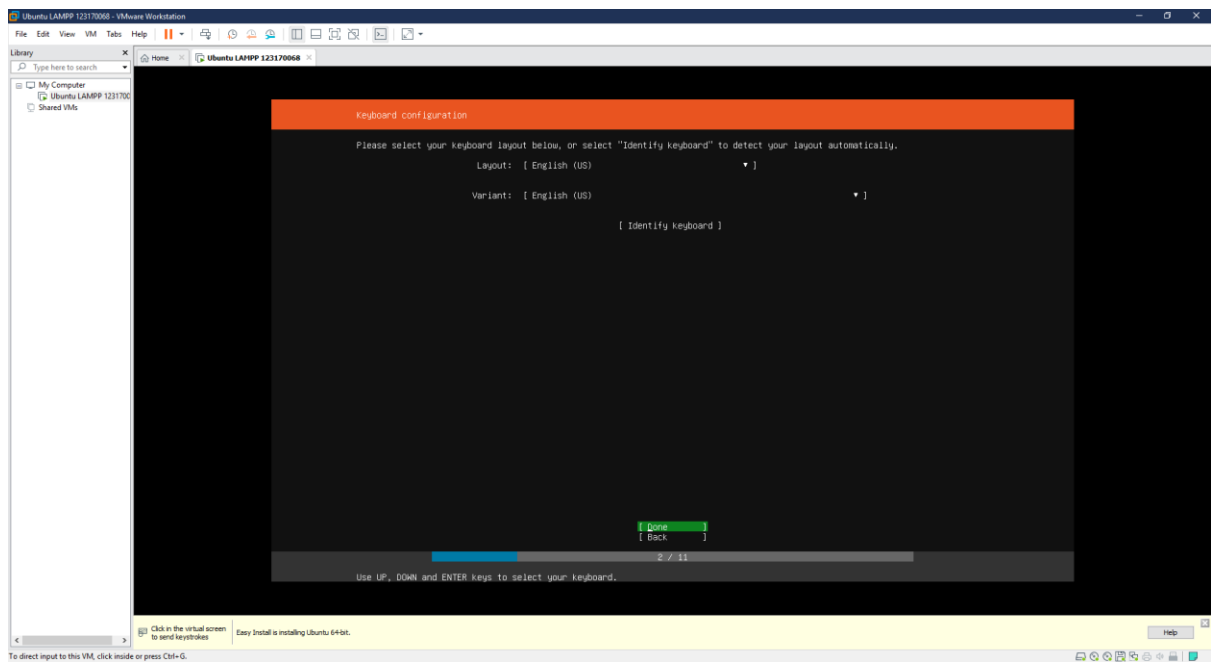
Next >

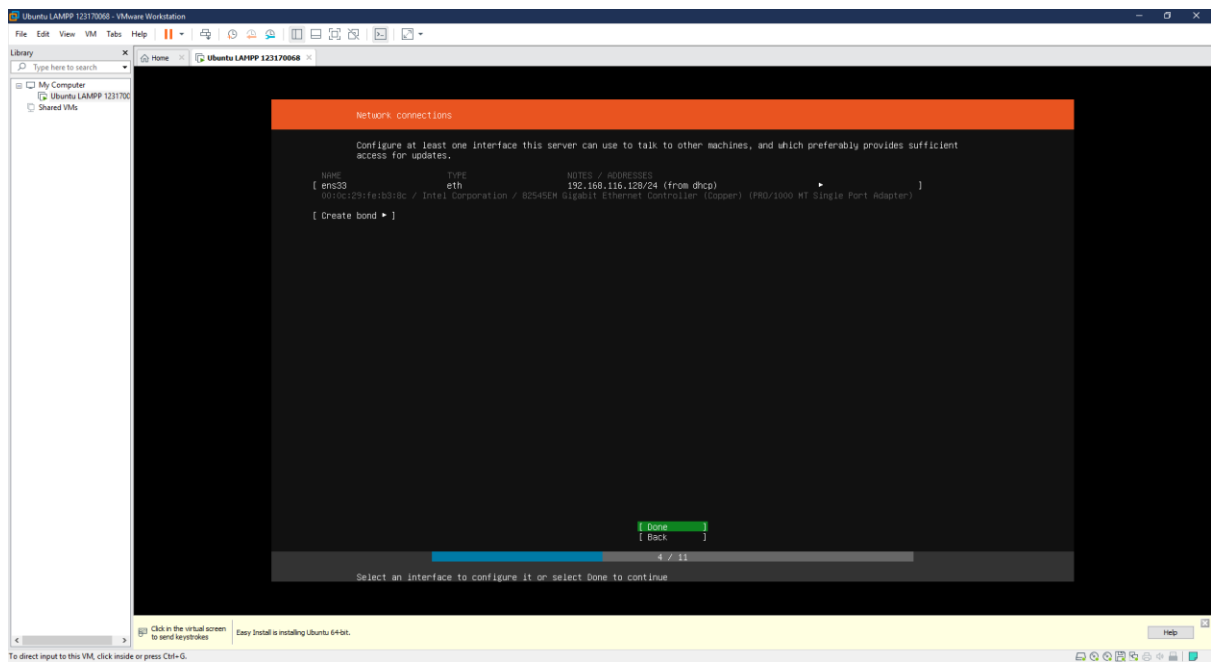
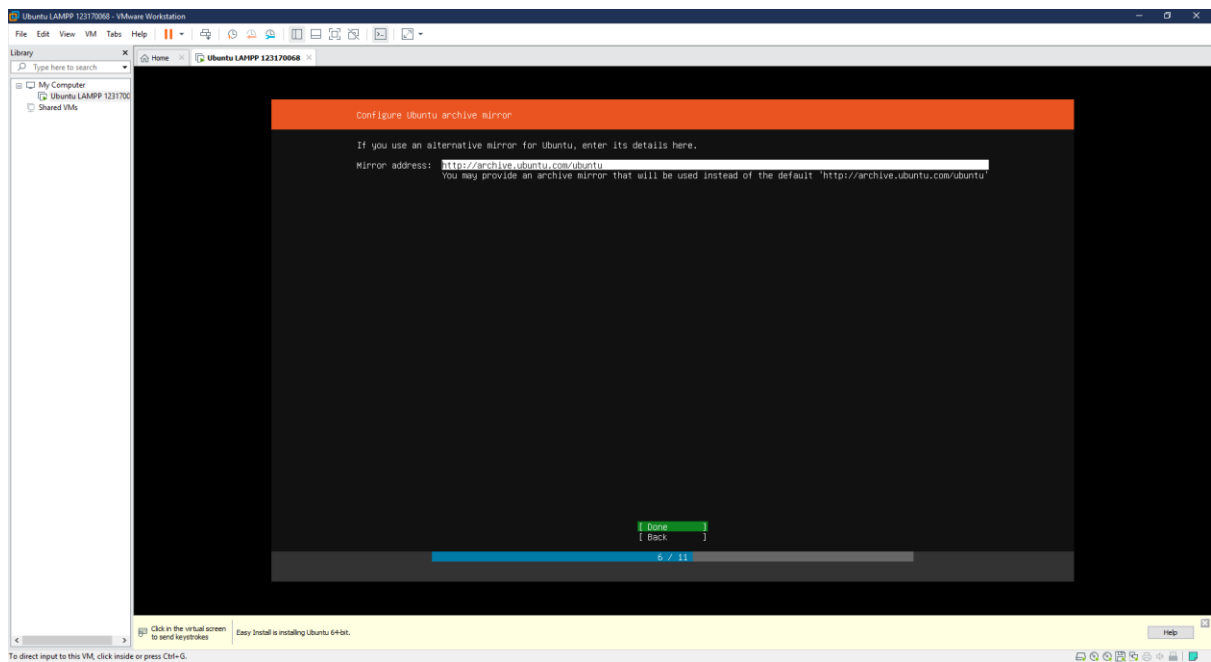
Cancel

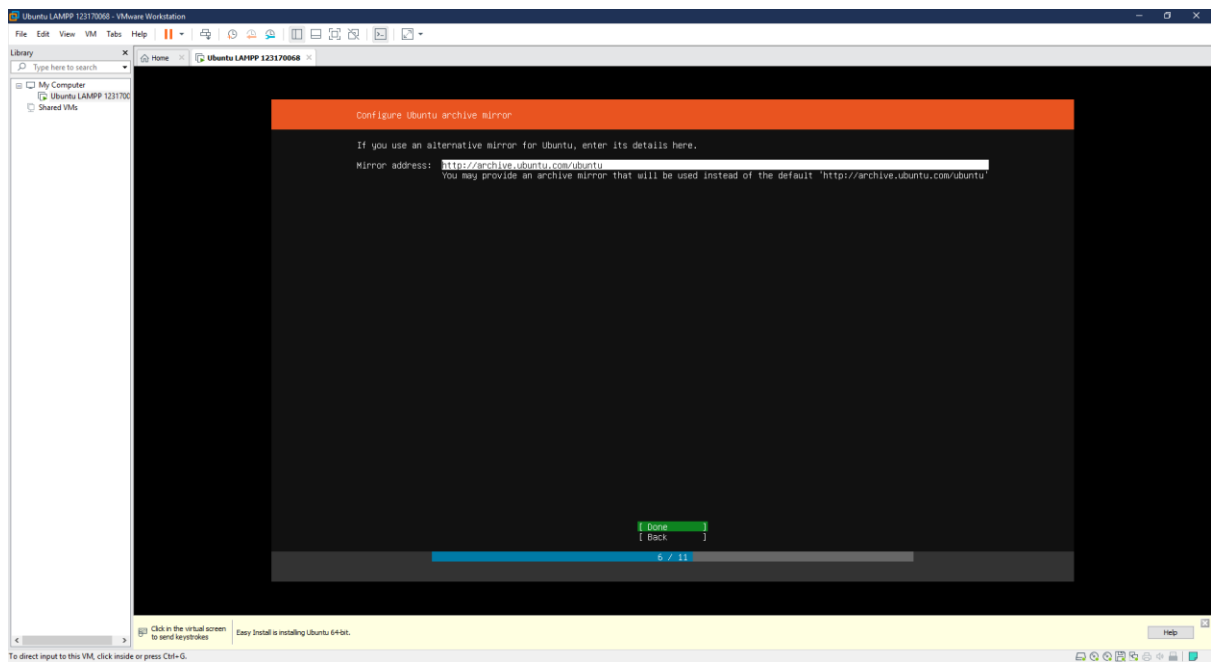
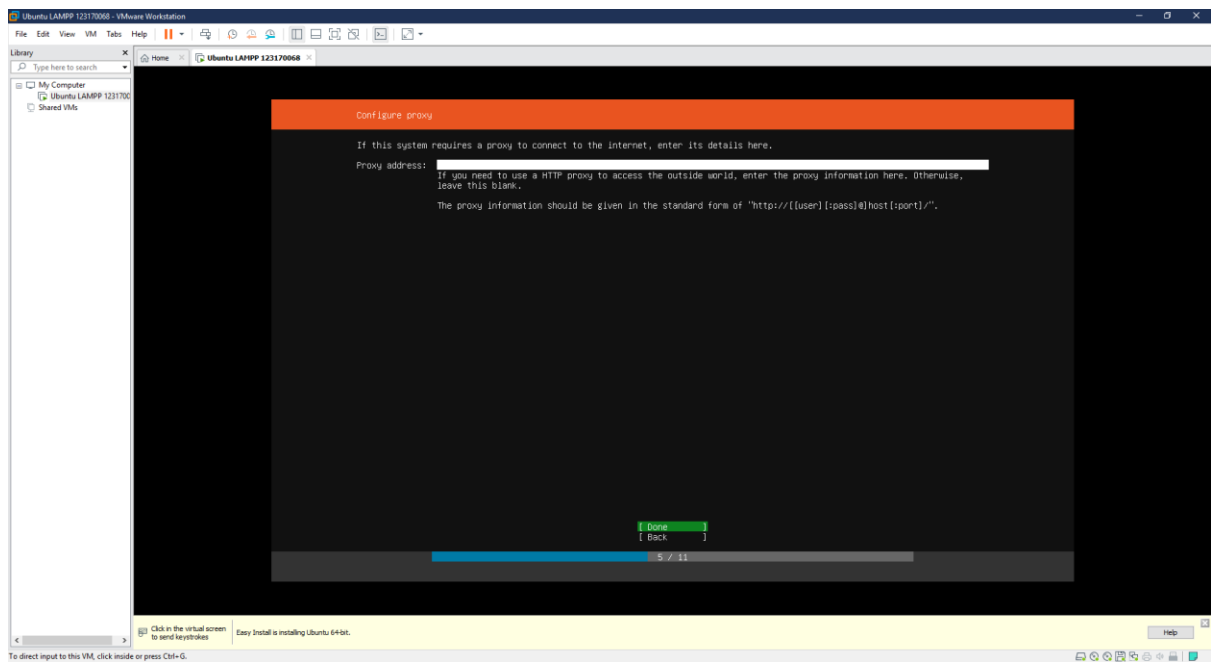


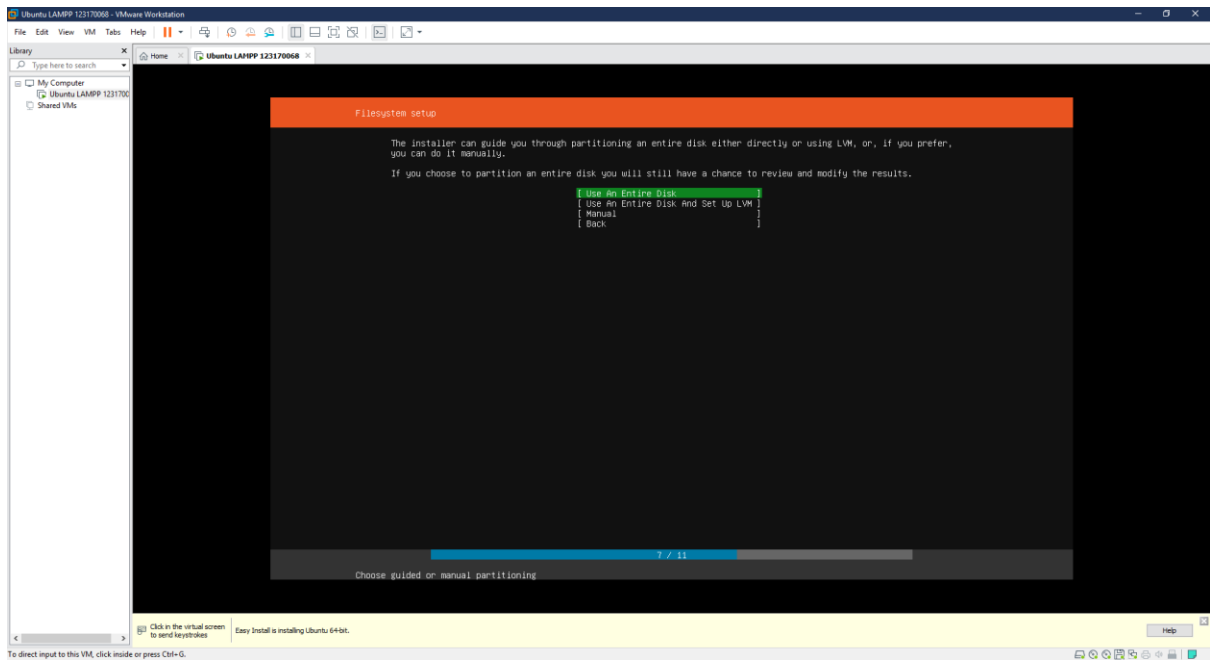
Cara interaksi dengan VM : Masuk dengan ctrl+G dan untuk kembali ke windows dengan ctrl+alt



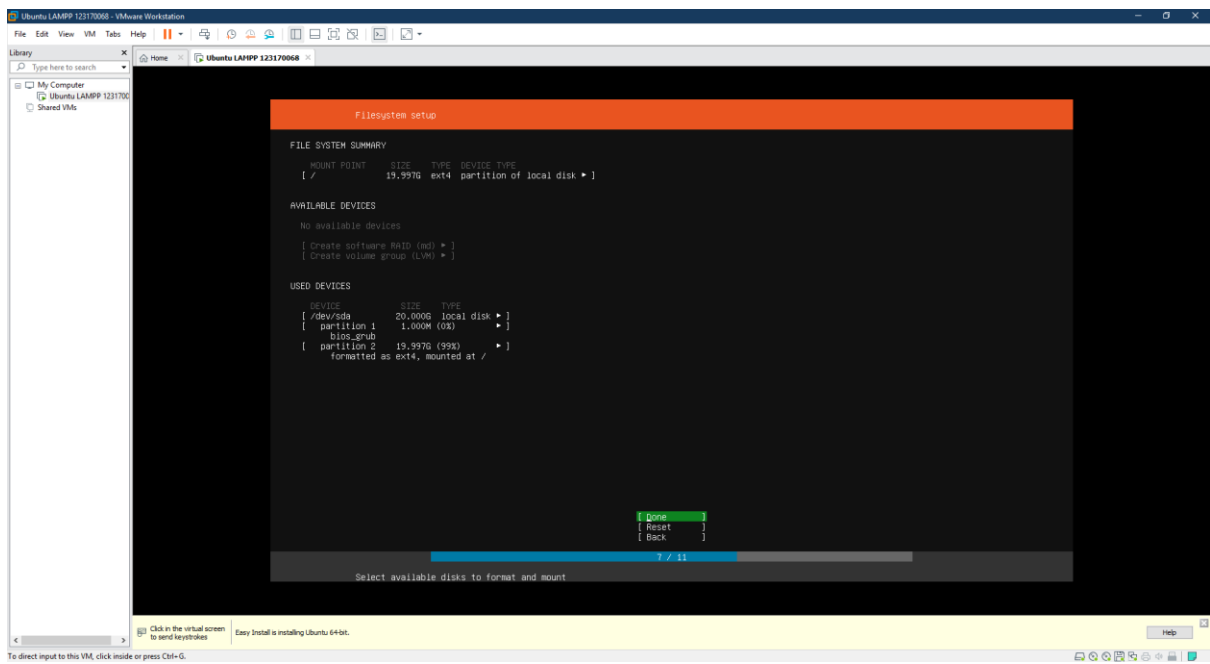




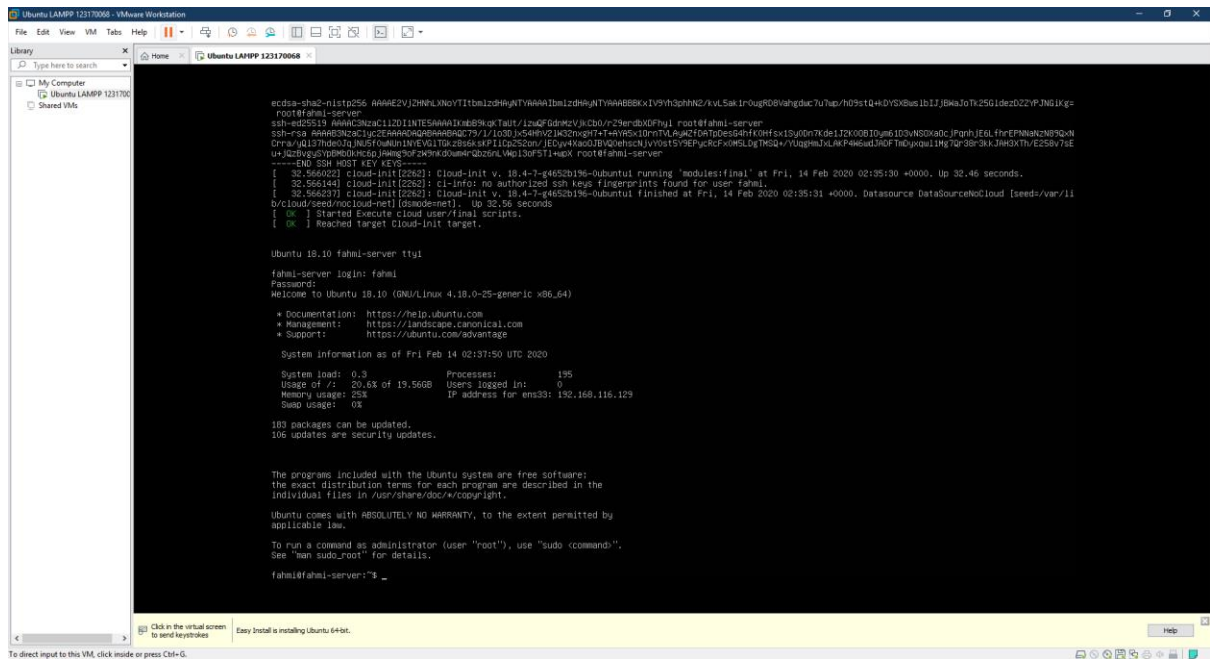




Untuk Menggunakan keseluruhan disk



Login



```
cdcs-sha2-nistp256 AAAAE2VjZHNhLlN0Y11bnlZlZHNhYTYAAABZlmlZlZHNhYTYAAABBBxIV9rh3pHnK2/xv.5ak1r0u9R0v8ahgducTu/hap/709stQ4wDVSXBas1b1JJBkaJ0Th25G1dez022YpJN6UKg=
root@fahmi-server:~# ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQ79/L/1030/v54hv2JW32nxgH7+T+YRSx10nTVLpW4C1DAtpdesBhK0Hfsv1Sy0n7yde1J2K00B10j6103/NSDvaocJPqhJE6LfrEPNakzNB9QwN
Crrayq137hdeJqJN5F0uNunLWVEV11Tkz85skxP11Q252onrJED0y4Xao0JBVQehscJjv0st5Y9EPycRcFxdW5LgTHSQ/vYUqhaJxLKP4W6adJhCFThDyqxq11Hg70r38r3KJh9X3ThvE258v75E
uJQz8vYg5p8B0HMc0JWeg30FzK9Kd0uwrQ26rLWp130F5T1+abX root@fahmi-server
-----END SSH HOST KEY KEYS-----
[ 32.566022] cloud-init[262]: Cloud-init v. 18.4-7-g4652b196-ubuntu running 'modules:final' at Fri, 14 Feb 2020 02:35:30 +0000. Up 32.46 seconds.
[ 32.566144] cloud-init[262]: ci-info: no authorized ssh keys fingerprints found for user fahmi.
[ 32.566297] cloud-init[262]: Cloud-init v. 18.4-7-g4652b196-ubuntu finished at Fri, 14 Feb 2020 02:35:31 +0000. DataSource DataSourceNoCloud [seed:/var/lib/cloud/seed/nocloud-net] (dsnocloud-net). Up 32.56 seconds
[ OK ] Started Execute cloud user/final scripts.
[ OK ] Reached target Cloud-Init target.

Ubuntu 18.10 fahmi-server tty1
fahmi-server login: fahmi
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 02:37:50 UTC 2020

System load:  0.3          Processes:      195
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.

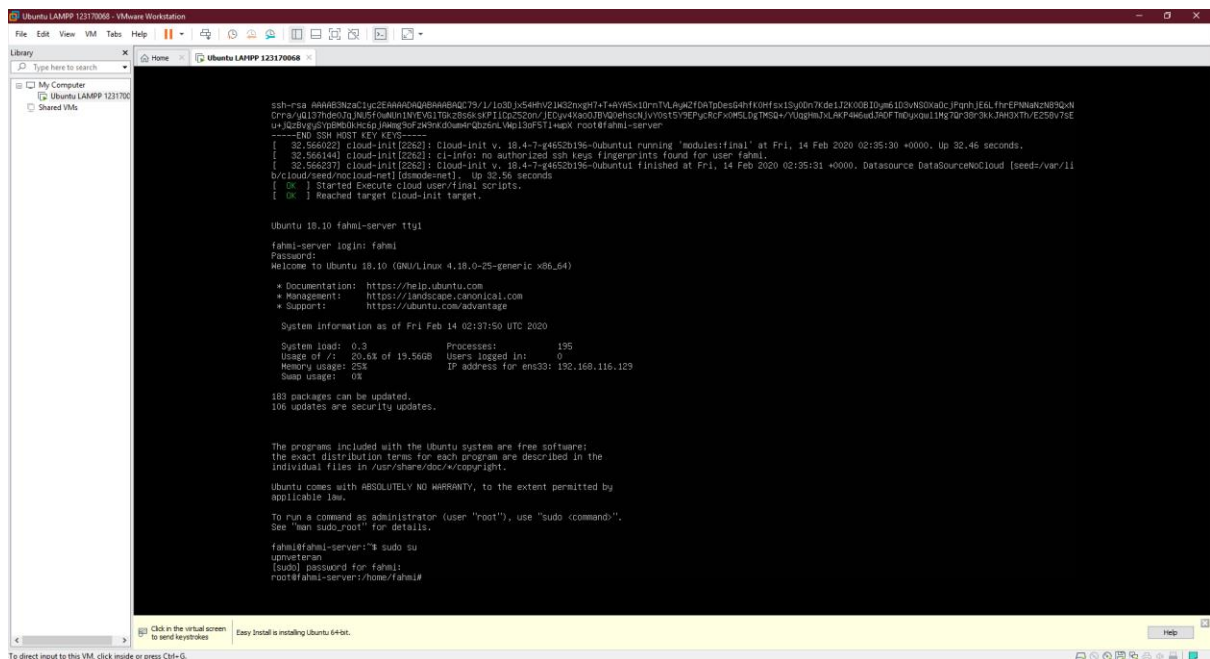
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

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.

fahmi@fahmi-server:~$
```

Cara pindah ke akun root dengan perintah sudo su kemudian masukkan password. Untuk kembali tinggal ketikkan exit



```
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQ79/L/1030/v54hv2JW32nxgH7+T+YRSx10nTVLpW4C1DAtpdesBhK0Hfsv1Sy0n7yde1J2K00B10j6103/NSDvaocJPqhJE6LfrEPNakzNB9QwN
Crrayq137hdeJqJN5F0uNunLWVEV11Tkz85skxP11Q252onrJED0y4Xao0JBVQehscJjv0st5Y9EPycRcFxdW5LgTHSQ/vYUqhaJxLKP4W6adJhCFThDyqxq11Hg70r38r3KJh9X3ThvE258v75E
uJQz8vYg5p8B0HMc0JWeg30FzK9Kd0uwrQ26rLWp130F5T1+abX root@fahmi-server
-----END SSH HOST KEY KEYS-----
[ 32.566022] cloud-init[262]: Cloud-init v. 18.4-7-g4652b196-ubuntu running 'modules:final' at Fri, 14 Feb 2020 02:35:30 +0000. Up 32.46 seconds.
[ 32.566144] cloud-init[262]: ci-info: no authorized ssh keys fingerprints found for user fahmi.
[ 32.566297] cloud-init[262]: Cloud-init v. 18.4-7-g4652b196-ubuntu finished at Fri, 14 Feb 2020 02:35:31 +0000. DataSource DataSourceNoCloud [seed:/var/lib/cloud/seed/nocloud-net] (dsnocloud-net). Up 32.56 seconds
[ OK ] Started Execute cloud user/final scripts.
[ OK ] Reached target Cloud-Init target.

Ubuntu 18.10 fahmi-server tty1
fahmi-server login: fahmi
Password:
Welcome to Ubuntu 18.10 (GNU/Linux 4.18.0-25-generic x86_64)

 * Documentation:  https://help.ubuntu.com
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 * Support:      https://ubuntu.com/advantage

System information as of Fri Feb 14 02:37:50 UTC 2020

System load:  0.3          Processes:      195
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.
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The programs included with the Ubuntu system are free software;
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applicable law.

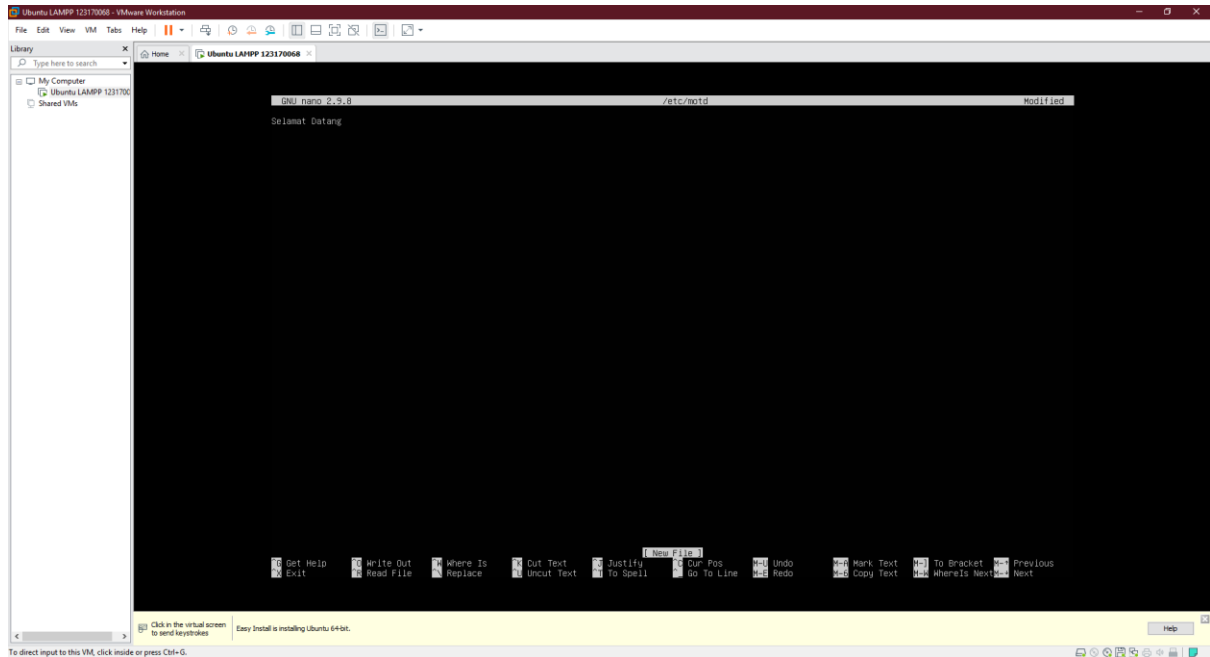
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

fahmi@fahmi-server:~$ sudo su
unveteran
[sudo] password for fahmi:
root@fahmi-server:/home/fahmi#
```

Aplikasi nano digunakan untuk menggunakan terminal.

Untuk mengganti berkas MOTD ketika berhasil login digunakan perintah nano /etc/motd dengan menggunakan akun root

Membuat Welcome Screen



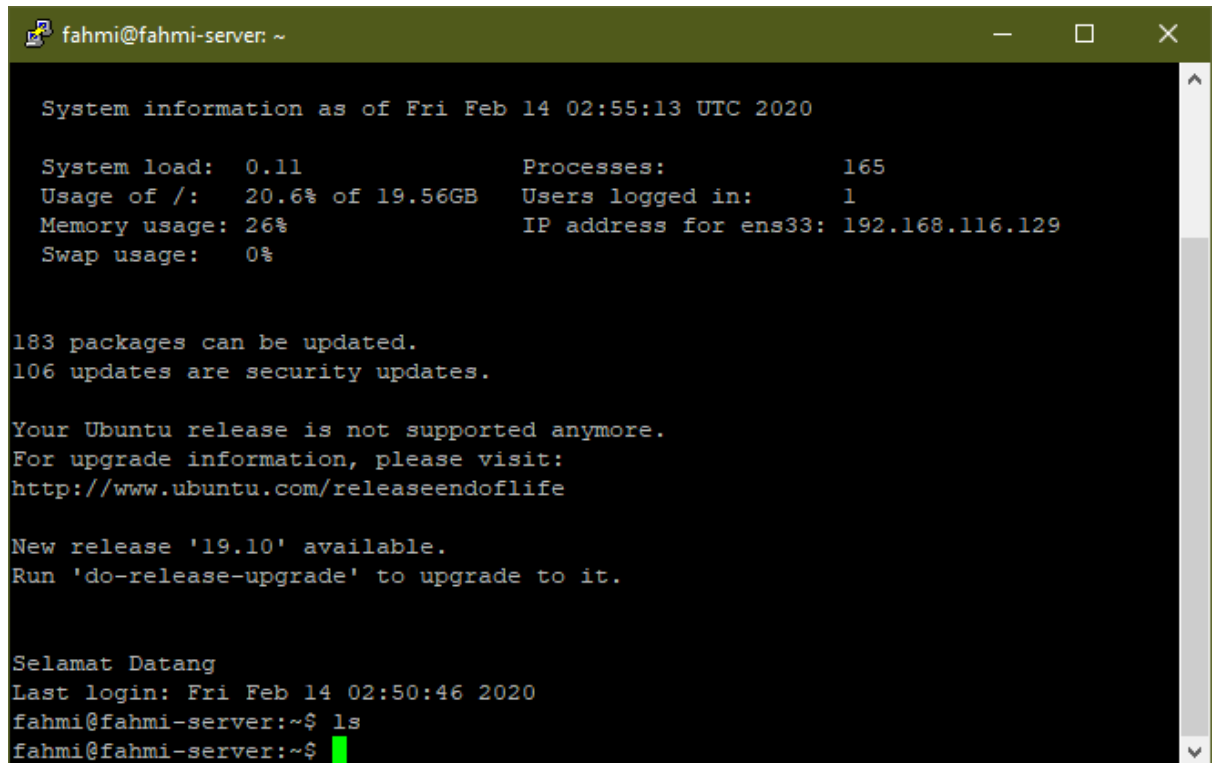
Untuk save digunakan ctrl+O

Menggunakan Remote Terminal : PUTTY

- Cari IP Ubuntu di welcome screen atau dengan perintah ifconfig kemudian perhatikan ens33
- Buka aplikasi PUTTY
- Masukkan IP Ubuntu
- Jika terjadi error klik yes
- Kemudian login di PUTTY

Evaluasi

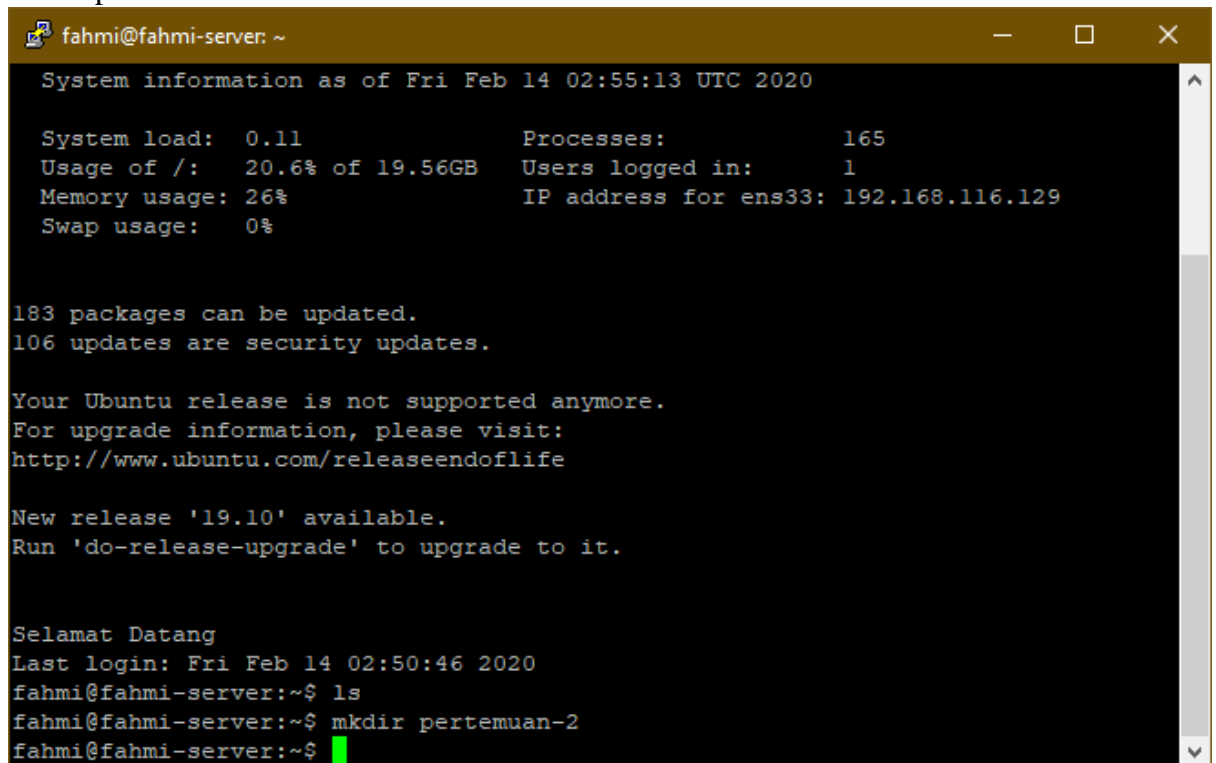
1. ls



```
fahmi@fahmi-server: ~  
  
System information as of Fri Feb 14 02:55:13 UTC 2020  
  
System load: 0.11      Processes:           165  
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.  
  
Selamat Datang  
Last login: Fri Feb 14 02:50:46 2020  
fahmi@fahmi-server:~$ ls  
fahmi@fahmi-server:~$
```

Setelah dicoba perintah ls maka tidak menghasilkan output apa-apa.

2. mkdir-pertemuan-2



```
fahmi@fahmi-server: ~  
  
System information as of Fri Feb 14 02:55:13 UTC 2020  
  
System load: 0.11      Processes:           165  
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.  
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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  
Last login: Fri Feb 14 02:50:46 2020  
fahmi@fahmi-server:~$ ls  
fahmi@fahmi-server:~$ mkdir pertemuan-2  
fahmi@fahmi-server:~$
```

Setelah dicoba perintah mkdir pertemuan-2 maka tidak menghasilkan output apa-apa karena digunakan untuk mendeklarasikan.

3. ls -l

```
fahmi@fahmi-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.

Selamat Datang
Last login: Fri Feb 14 02:50:46 2020
fahmi@fahmi-server:~$ ls
fahmi@fahmi-server:~$ mkdir pertemuan-2
fahmi@fahmi-server:~$ ls -l
total 4
drwxrwxr-x 2 fahmi fahmi 4096 Feb 14 03:00 pertemuan-2
fahmi@fahmi-server:~$
```

Setelah mengetikkan perintah ls -l maka muncul hasil tampilan last login dan diikuti tampilan pertemuan-2 seperti yang sudah dideklarasikan pada nomor 2

4. cp -r pertemuan-2 pertemuan-1

```
fahmi@fahmi-server: ~
Memory usage: 26%           IP address for ens33: 192.168.116.129
Swap usage: 0%

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

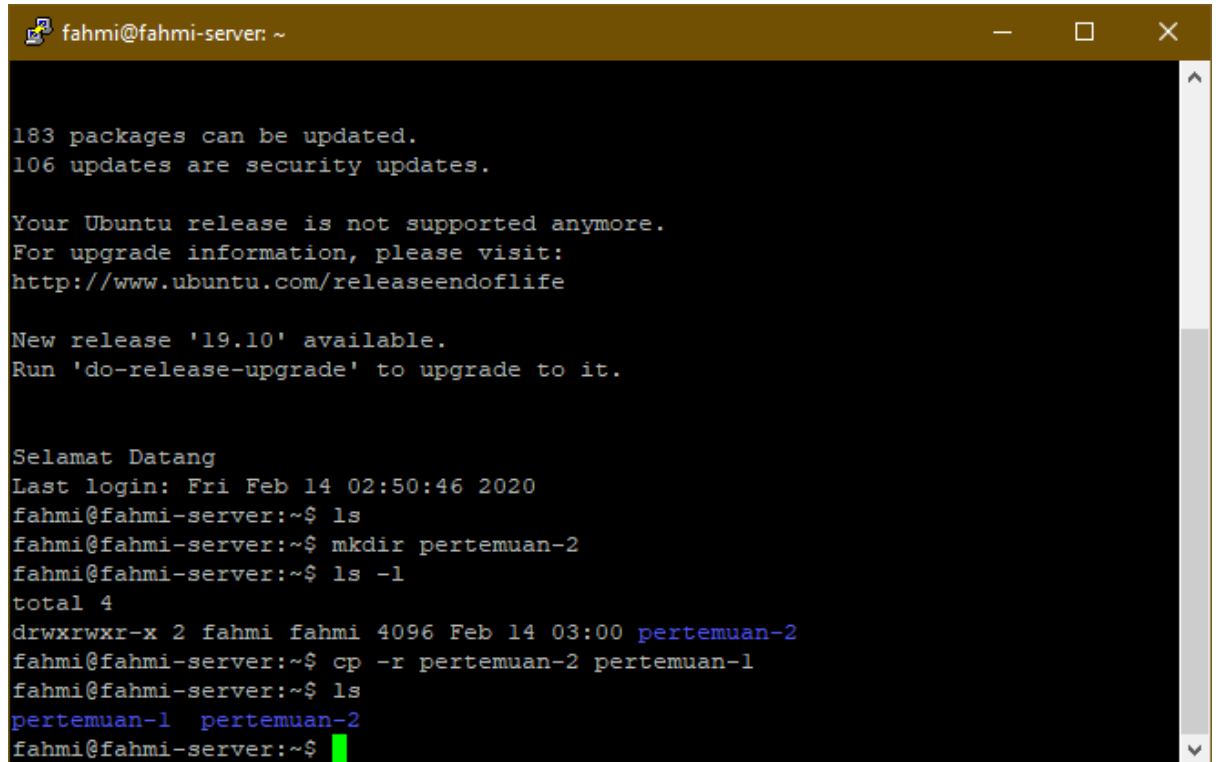
Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife

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

Selamat Datang
Last login: Fri Feb 14 02:50:46 2020
fahmi@fahmi-server:~$ ls
fahmi@fahmi-server:~$ mkdir pertemuan-2
fahmi@fahmi-server:~$ ls -l
total 4
drwxrwxr-x 2 fahmi fahmi 4096 Feb 14 03:00 pertemuan-2
fahmi@fahmi-server:~$ cp -r pertemuan-2 pertemuan-1
fahmi@fahmi-server:~$
```

Setelah dilakukan perintah tersebut maka tidak dihasilkan output apa-apa karena perintah tersebut digunakan untuk mendeklarasikan.

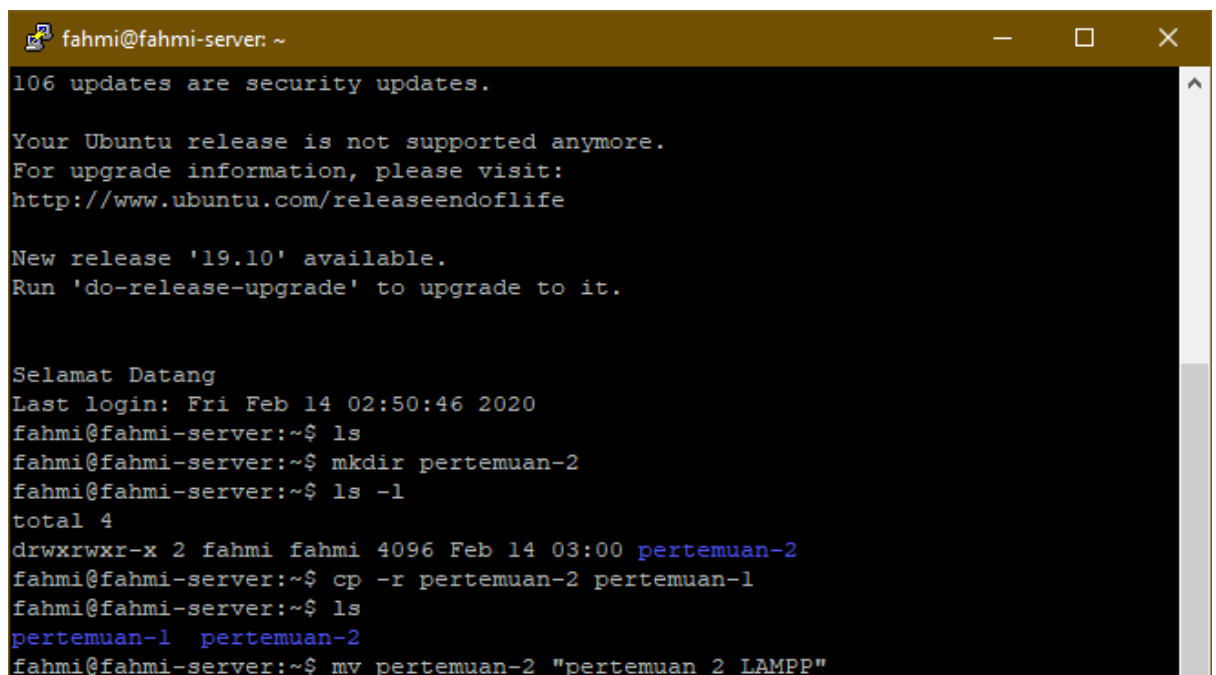
5. ls



```
fahmi@fahmi-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.  
  
Selamat Datang  
Last login: Fri Feb 14 02:50:46 2020  
fahmi@fahmi-server:~$ ls  
fahmi@fahmi-server:~$ mkdir pertemuan-2  
fahmi@fahmi-server:~$ ls -l  
total 4  
drwxrwxr-x 2 fahmi fahmi 4096 Feb 14 03:00 pertemuan-2  
fahmi@fahmi-server:~$ cp -r pertemuan-2 pertemuan-1  
fahmi@fahmi-server:~$ ls  
pertemuan-1  pertemuan-2  
fahmi@fahmi-server:~$
```

Setelah dilakukan perintah maka muncul hasil seperti diatas yaitu seperti yang sudah dideklarasikan sebelumnya pada soal nomor 4

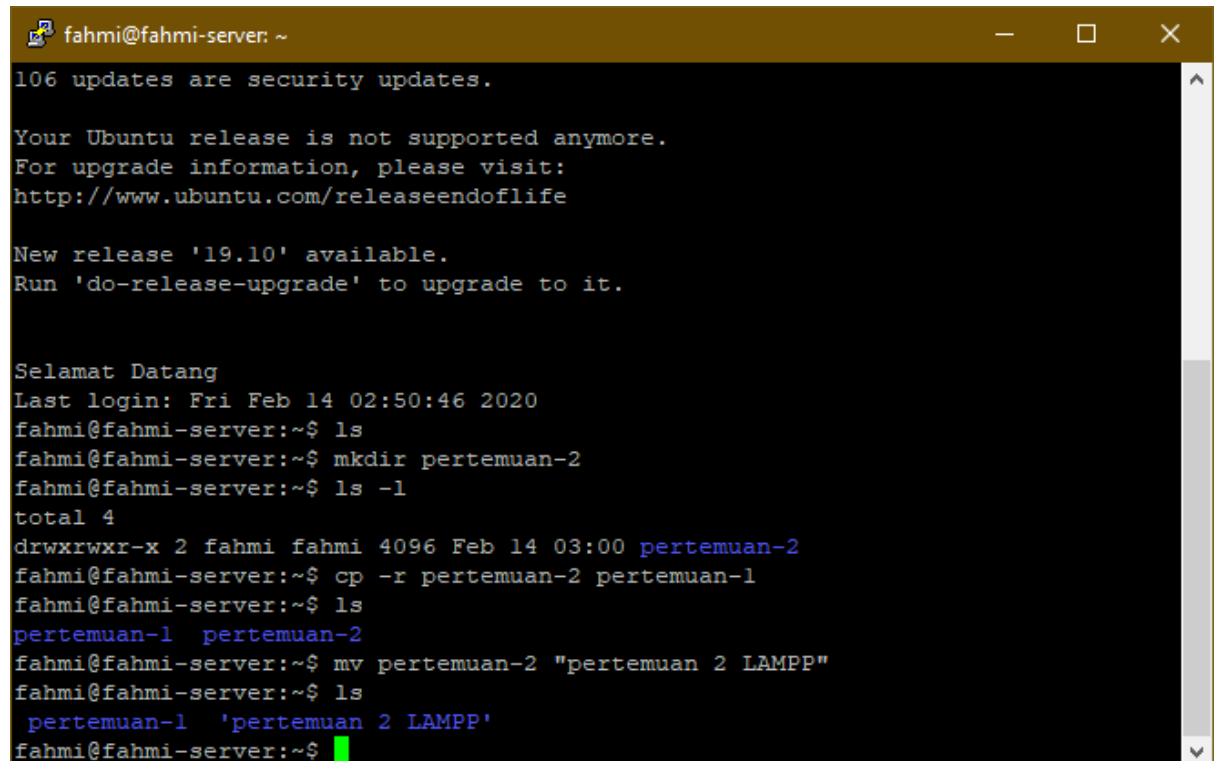
6. mv pertemuan-2 “pertemuan 2 LAMPP”



```
fahmi@fahmi-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.  
  
Selamat Datang  
Last login: Fri Feb 14 02:50:46 2020  
fahmi@fahmi-server:~$ ls  
fahmi@fahmi-server:~$ mkdir pertemuan-2  
fahmi@fahmi-server:~$ ls -l  
total 4  
drwxrwxr-x 2 fahmi fahmi 4096 Feb 14 03:00 pertemuan-2  
fahmi@fahmi-server:~$ cp -r pertemuan-2 pertemuan-1  
fahmi@fahmi-server:~$ ls  
pertemuan-1  pertemuan-2  
fahmi@fahmi-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
```

Perintah tersebut digunakan untuk mendeklarasikan bahwa isi dari pertemuan-2 adalah “pertemuan 2 LAMPP”

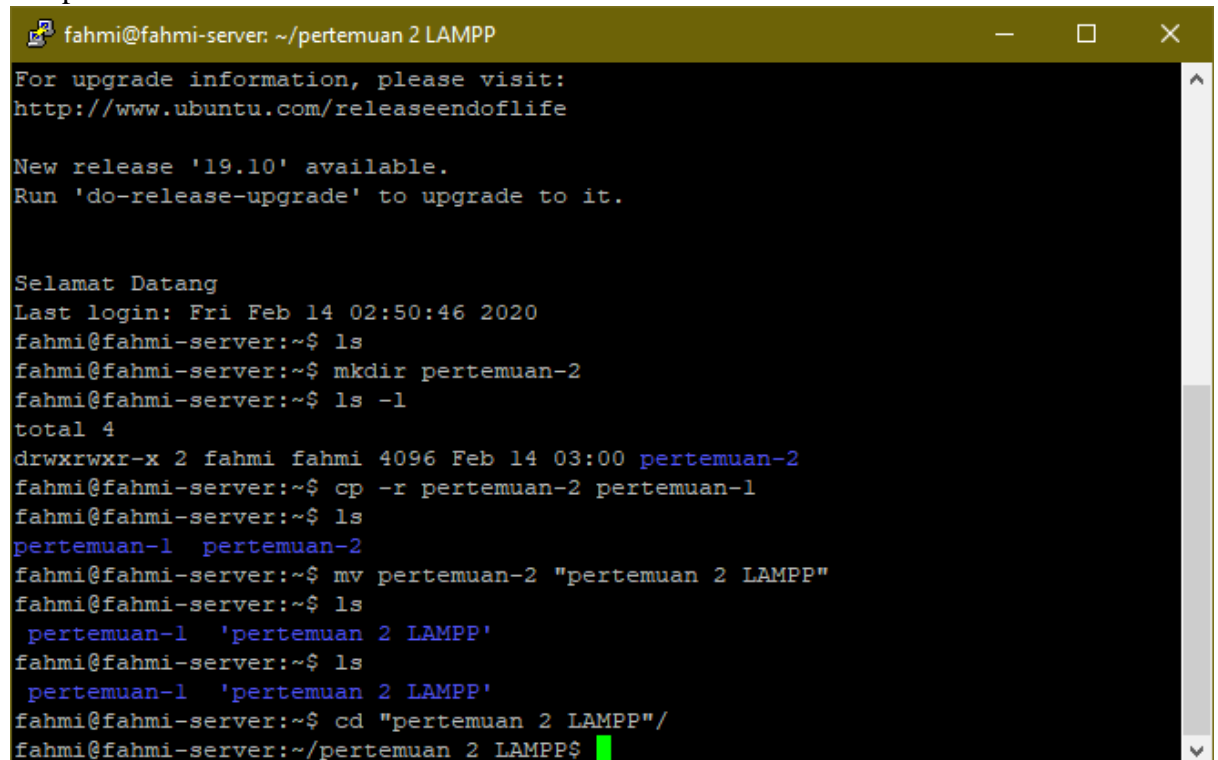
7. ls



```
fahmi@fahmi-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.  
  
Selamat Datang  
Last login: Fri Feb 14 02:50:46 2020  
fahmi@fahmi-server:~$ ls  
fahmi@fahmi-server:~$ mkdir pertemuan-2  
fahmi@fahmi-server:~$ ls -l  
total 4  
drwxrwxr-x 2 fahmi fahmi 4096 Feb 14 03:00 pertemuan-2  
fahmi@fahmi-server:~$ cp -r pertemuan-2 pertemuan-1  
fahmi@fahmi-server:~$ ls  
pertemuan-1  pertemuan-2  
fahmi@fahmi-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"  
fahmi@fahmi-server:~$ ls  
pertemuan-1  'pertemuan 2 LAMPP'  
fahmi@fahmi-server:~$
```

Perintah tersebut digunakan untuk menampilkan apa yang sudah dideklarasikan sebelumnya pada nomor 4 sampai 6.

8. cd “pertemuan 2



```
fahmi@fahmi-server: ~/pertemuan 2 LAMPP  
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  
Last login: Fri Feb 14 02:50:46 2020  
fahmi@fahmi-server:~$ ls  
fahmi@fahmi-server:~$ mkdir pertemuan-2  
fahmi@fahmi-server:~$ ls -l  
total 4  
drwxrwxr-x 2 fahmi fahmi 4096 Feb 14 03:00 pertemuan-2  
fahmi@fahmi-server:~$ cp -r pertemuan-2 pertemuan-1  
fahmi@fahmi-server:~$ ls  
pertemuan-1  pertemuan-2  
fahmi@fahmi-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"  
fahmi@fahmi-server:~$ ls  
pertemuan-1  'pertemuan 2 LAMPP'  
fahmi@fahmi-server:~$ ls  
pertemuan-1  'pertemuan 2 LAMPP'  
fahmi@fahmi-server:~$ cd "pertemuan 2 LAMPP"/  
fahmi@fahmi-server:~/pertemuan 2 LAMPP$
```

Perintah tersebut digunakan untuk menampilkan se

9. nano biodata.txt

```
fahmi@fahmi-server: ~/pertemuan 2 LAMPP
http://www.ubuntu.com/releaseendoflife

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

Selamat Datang
Last login: Fri Feb 14 02:50:46 2020
fahmi@fahmi-server:~$ ls
fahmi@fahmi-server:~$ mkdir pertemuan-2
fahmi@fahmi-server:~$ ls -l
total 4
drwxrwxr-x 2 fahmi fahmi 4096 Feb 14 03:00 pertemuan-2
fahmi@fahmi-server:~$ cp -r pertemuan-2 pertemuan-1
fahmi@fahmi-server:~$ ls
pertemuan-1  pertemuan-2
fahmi@fahmi-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
fahmi@fahmi-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
fahmi@fahmi-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
fahmi@fahmi-server:~$ cd "pertemuan 2 LAMPP"/
fahmi@fahmi-server:~/pertemuan 2 LAMPP$ nano biodata.txt
fahmi@fahmi-server:~/pertemuan 2 LAMPP$
```

Digunakan untuk mendeklarasikan biodata.txt

10. ls -l

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

Selamat Datang
Last login: Fri Feb 14 02:50:46 2020
fahmi@fahmi-server:~$ ls
fahmi@fahmi-server:~$ mkdir pertemuan-2
fahmi@fahmi-server:~$ ls -l
total 4
drwxrwxr-x 2 fahmi fahmi 4096 Feb 14 03:00 pertemuan-2
fahmi@fahmi-server:~$ cp -r pertemuan-2 pertemuan-1
fahmi@fahmi-server:~$ ls
pertemuan-1  pertemuan-2
fahmi@fahmi-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
fahmi@fahmi-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
fahmi@fahmi-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
fahmi@fahmi-server:~$ cd "pertemuan 2 LAMPP"/
fahmi@fahmi-server:~/pertemuan 2 LAMPP$ nano biodata.txt
fahmi@fahmi-server:~/pertemuan 2 LAMPP$ ls -l
total 4
-rw-rw-r-- 1 fahmi fahmi 10 Feb 14 03:18 biodata.txt
fahmi@fahmi-server:~/pertemuan 2 LAMPP$
```

Setelah mengetikkan perintah ls -l maka muncul hasil tampilan last login dan diikuti tampilan tulisan biodata.txt

11. cat biodata.txt

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

Selamat Datang
Last login: Fri Feb 14 02:50:46 2020
fahmi@fahmi-server:~$ ls
fahmi@fahmi-server:~$ mkdir pertemuan-2
fahmi@fahmi-server:~$ ls -l
total 4
drwxrwxr-x 2 fahmi fahmi 4096 Feb 14 03:00 pertemuan-2
fahmi@fahmi-server:~$ cp -r pertemuan-2 pertemuan-1
fahmi@fahmi-server:~$ ls
pertemuan-1  pertemuan-2
fahmi@fahmi-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
fahmi@fahmi-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
fahmi@fahmi-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
fahmi@fahmi-server:~$ cd "pertemuan 2 LAMPP"/
fahmi@fahmi-server:~/pertemuan 2 LAMPP$ nano biodata.txt
fahmi@fahmi-server:~/pertemuan 2 LAMPP$ ls -l
total 4
-rw-rw-r-- 1 fahmi fahmi 10 Feb 14 03:18 biodata.txt
fahmi@fahmi-server:~/pertemuan 2 LAMPP$ cat biodata.txt
123170068
fahmi@fahmi-server:~/pertemuan 2 LAMPP$
```

Perintah untuk menampilkan biodata.txt

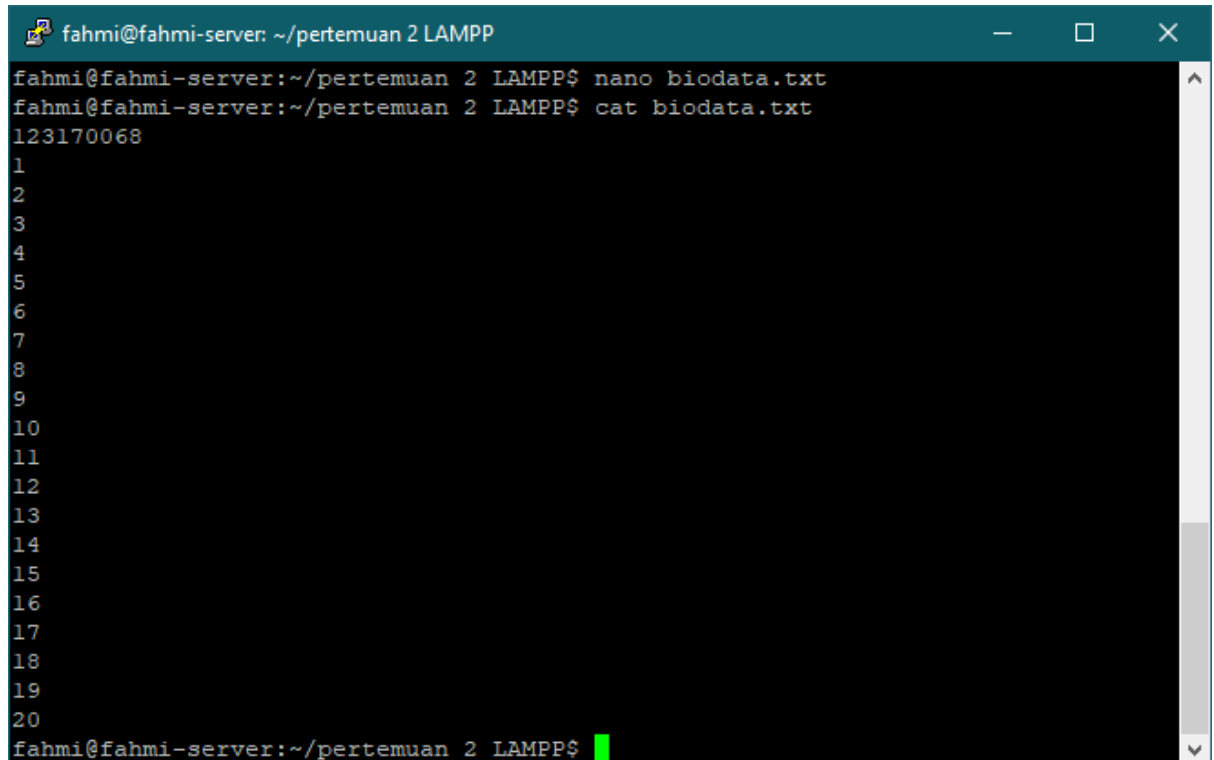
12. nano biodata.txt

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

Selamat Datang
Last login: Fri Feb 14 02:50:46 2020
fahmi@fahmi-server:~$ ls
fahmi@fahmi-server:~$ mkdir pertemuan-2
fahmi@fahmi-server:~$ ls -l
total 4
drwxrwxr-x 2 fahmi fahmi 4096 Feb 14 03:00 pertemuan-2
fahmi@fahmi-server:~$ cp -r pertemuan-2 pertemuan-1
fahmi@fahmi-server:~$ ls
pertemuan-1  pertemuan-2
fahmi@fahmi-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
fahmi@fahmi-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
fahmi@fahmi-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
fahmi@fahmi-server:~$ cd "pertemuan 2 LAMPP"/
fahmi@fahmi-server:~/pertemuan 2 LAMPP$ nano biodata.txt
fahmi@fahmi-server:~/pertemuan 2 LAMPP$ ls -l
total 4
-rw-rw-r-- 1 fahmi fahmi 10 Feb 14 03:18 biodata.txt
fahmi@fahmi-server:~/pertemuan 2 LAMPP$ cat biodata.txt
123170068
fahmi@fahmi-server:~/pertemuan 2 LAMPP$ nano biodata.txt
fahmi@fahmi-server:~/pertemuan 2 LAMPP$
```

Perintah untuk mengedit biodata.txt

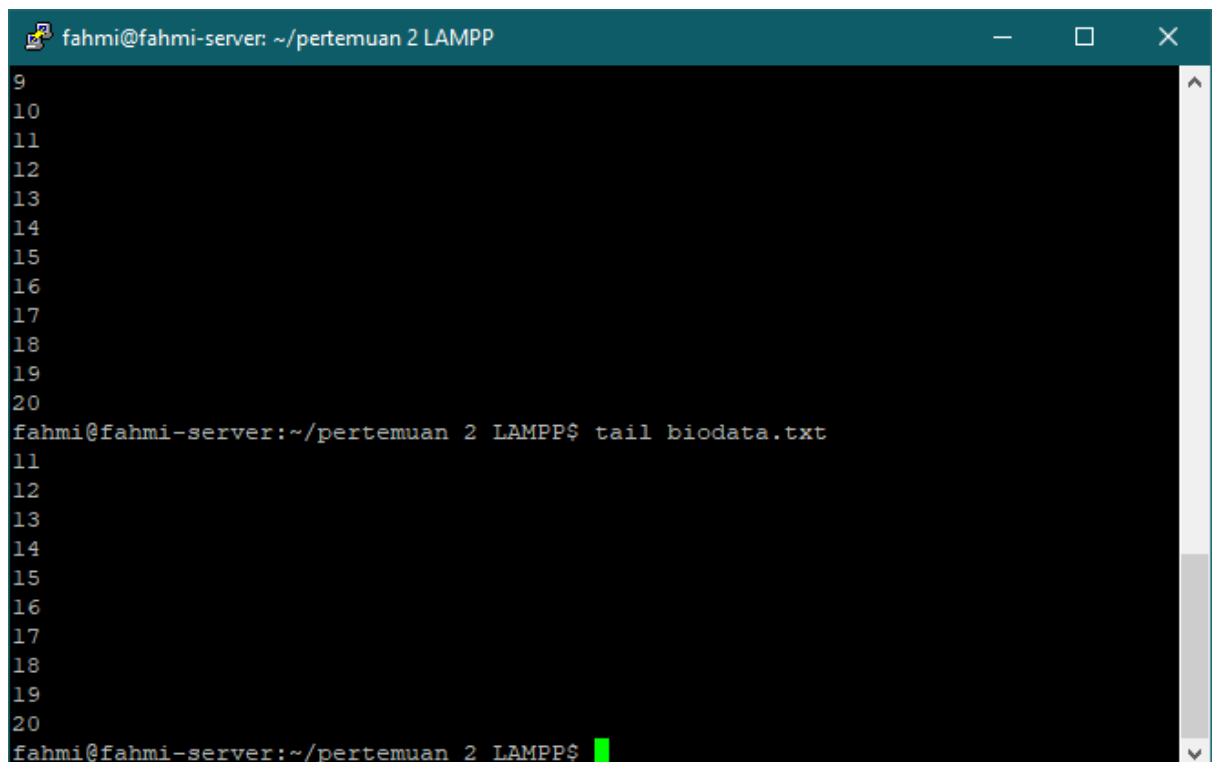
13. cat biodata.txt



```
fahmi@fahmi-server: ~/pertemuan 2 LAMPP
fahmi@fahmi-server:~/pertemuan 2 LAMPP$ nano biodata.txt
fahmi@fahmi-server:~/pertemuan 2 LAMPP$ cat biodata.txt
123170068
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
fahmi@fahmi-server:~/pertemuan 2 LAMPP$
```

Perintah untuk menampilkan hasil dari biodata.txt yang sudah diedit tadi

14. tail biodata.txt



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

Perintah untuk menampilkan 10 data terakhir (tail) dari biodata.txt