

## PENGENALAN VMWARE WORKSTATION DAN LINUX OS

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NIM : 123170081

PLUG : A

### 1. Pengenalan VMware

#### A. DIGUNAKAN UNTUK VIRTUALISASI SISTEM OPERASI

#### B. VIRTUALISASI : KEGIATAN UNTUK MENCIPTAKAN VERSI MAYA(VIRTUAL) DARI SWSUATU, MISALNYA hardware, storage, dan Resource dari komputer.

### CONCEPTUAL APPLICATION

#### a. HARDWARE FISIK KOMPUTER LAB

#### b. OS PADA KOMPUTER LAB

#### c. APLIKASI PADA VMWARE WORKSTIME

#### d. VIRTUAL OS

#### A. Membuat layanan hosting (SaaS) berbasiskan private cloud

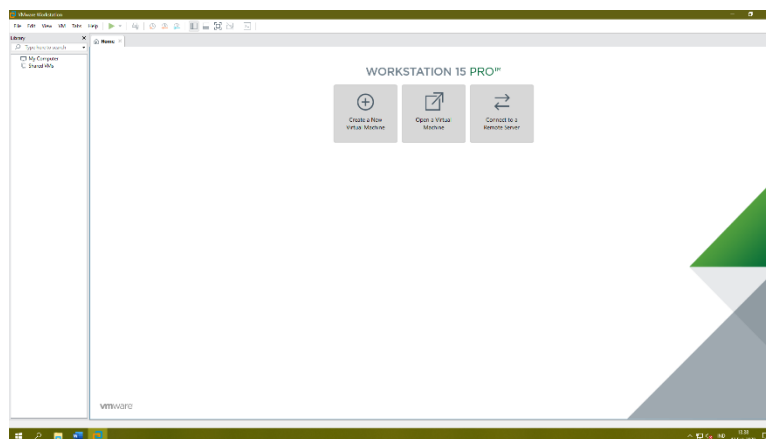
##### a. Apache

##### b. Mysql

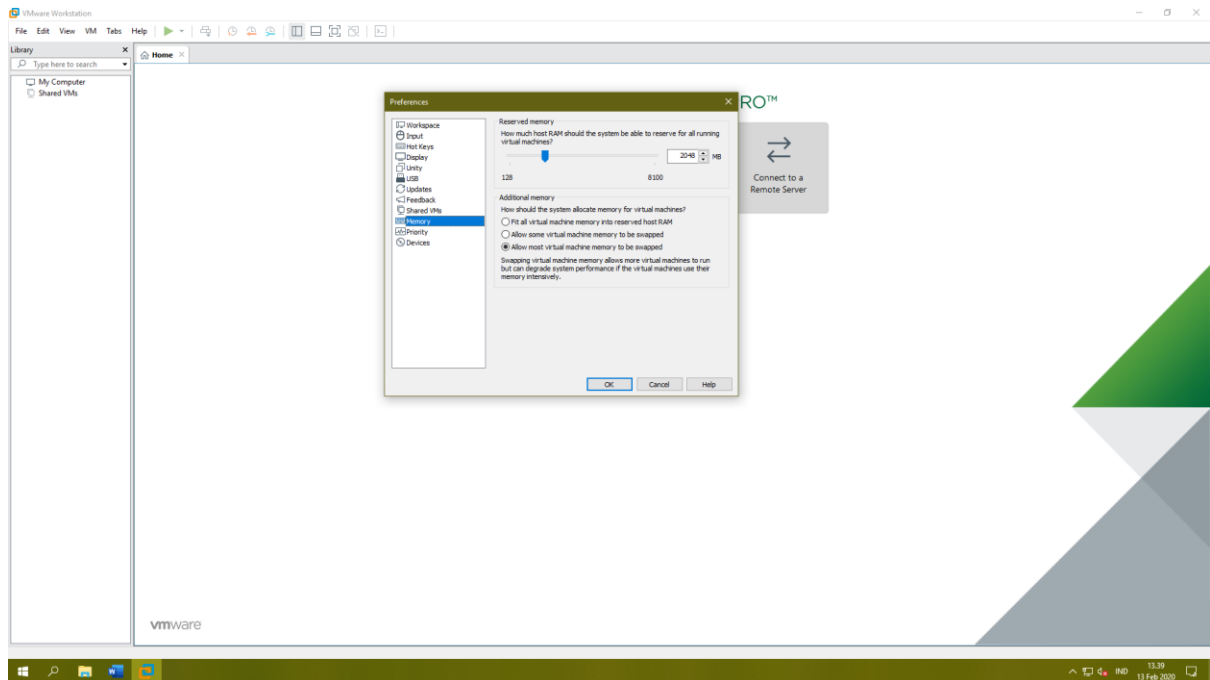
##### c. PHP

##### d. PHP

### A. VMWARE WORKSTATION



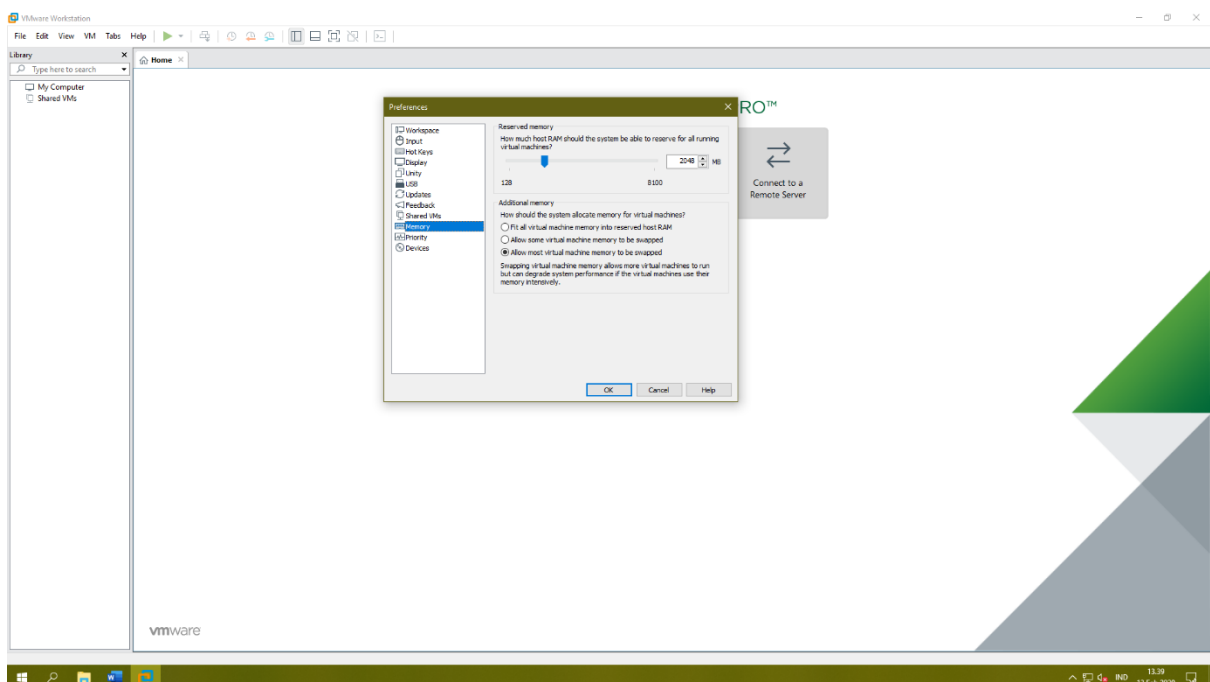
## A. SWAPPING



## Memperbaiki konflik pada port pada XAMPP

- Untuk memperbaiki masalah tersebut, matikan fitur shared VMs pada menu konfigurasi VMware workstation dengan cara klik change setting terlebih dulu klik disable sharing.

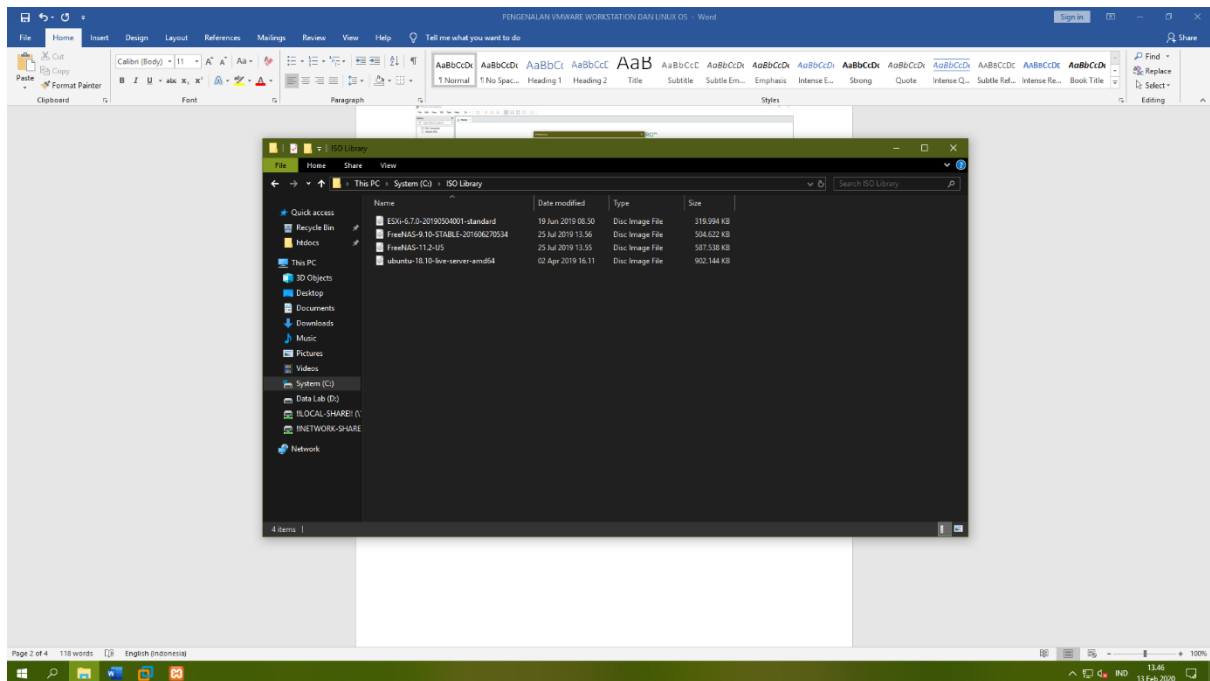
## B. SWAPPING



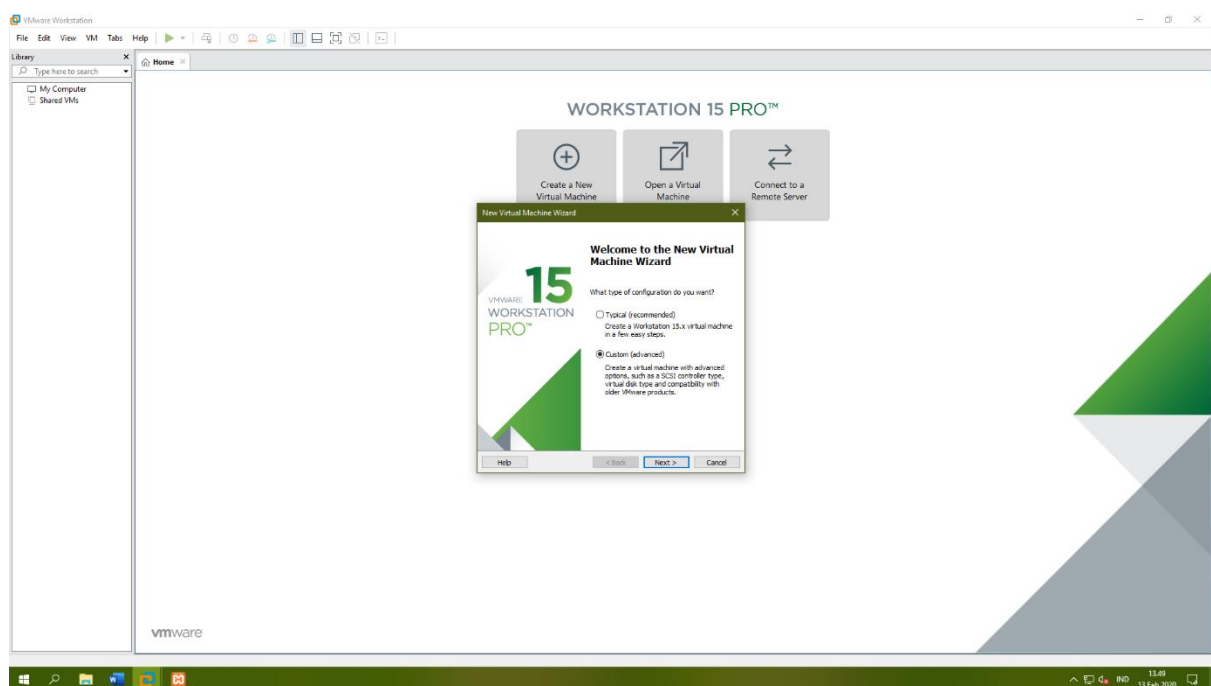
## 2. Linux OS (ubuntu)

### Penjelasan Persiapan Ubuntu installer

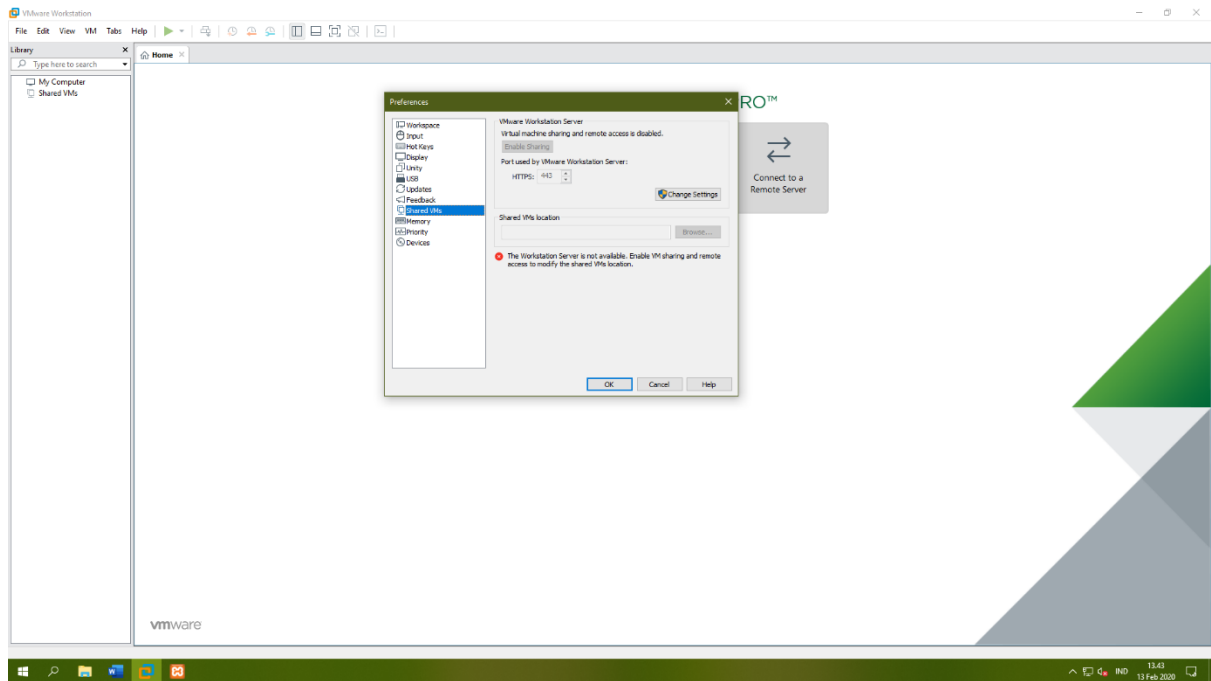
a. Siapkan Boxtable.



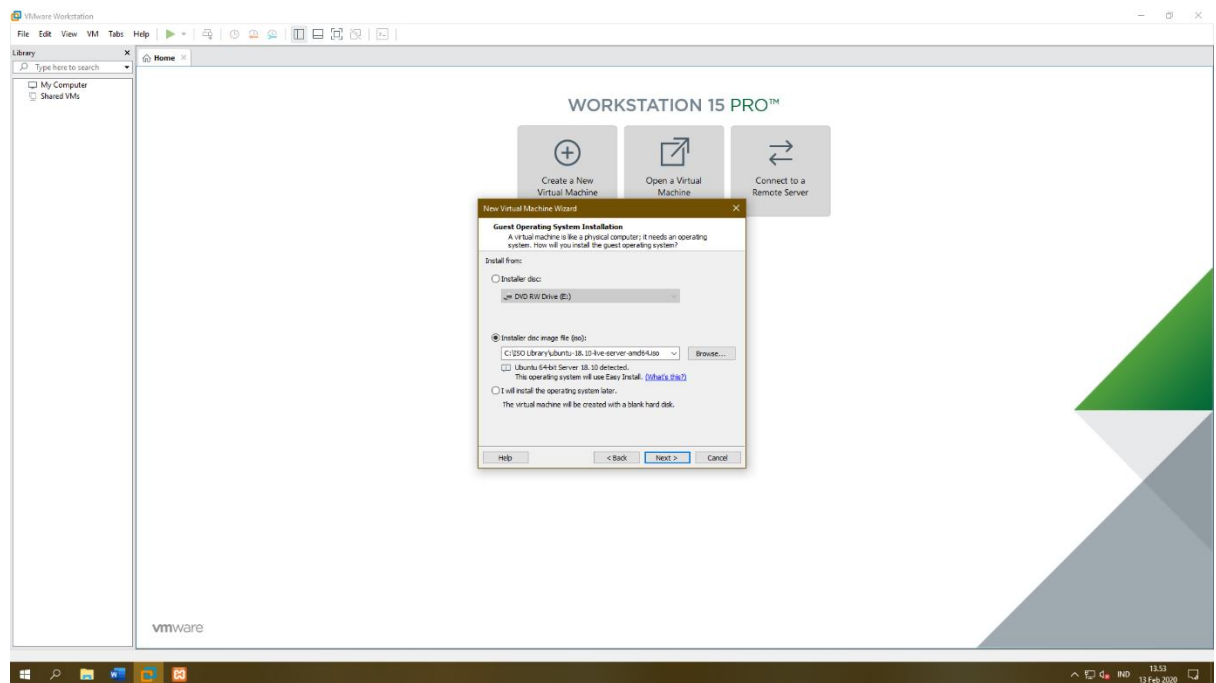
b. Pada vmware work, gunakan menu. Dan pilih custom.



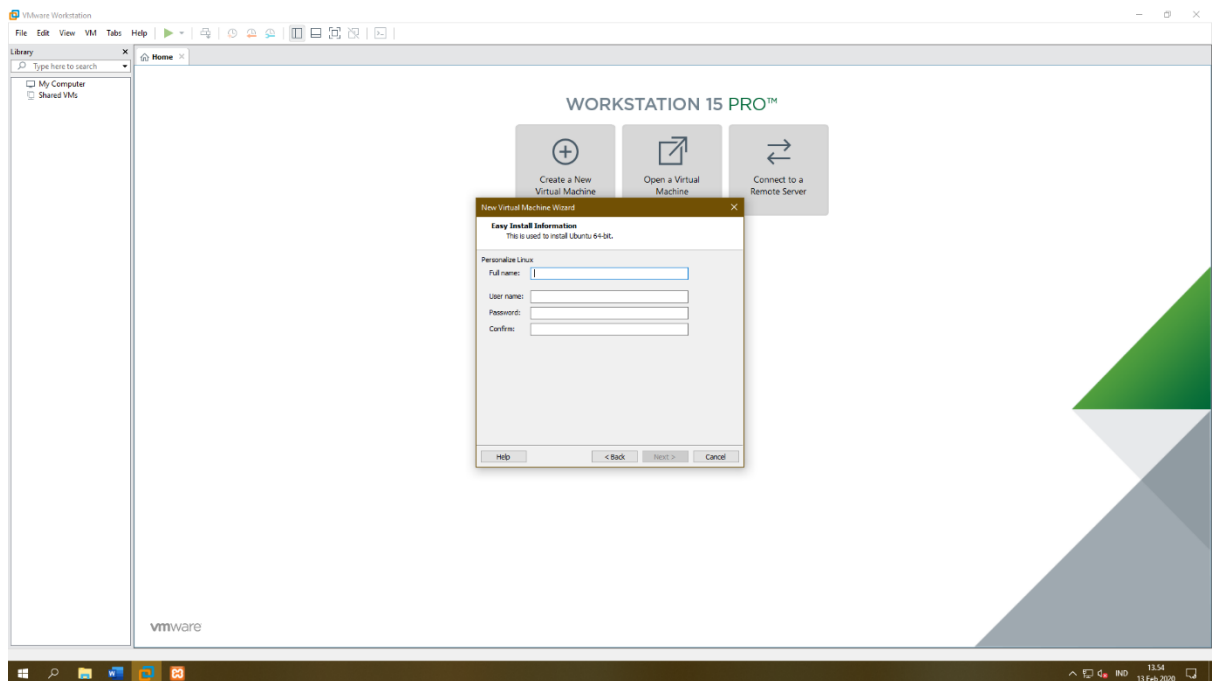
- c. Pilih kompatibilitas hardware tertinggi untuk sistem operasi VM modern (keluaran terbaru), menggunakan workstation 15.x.



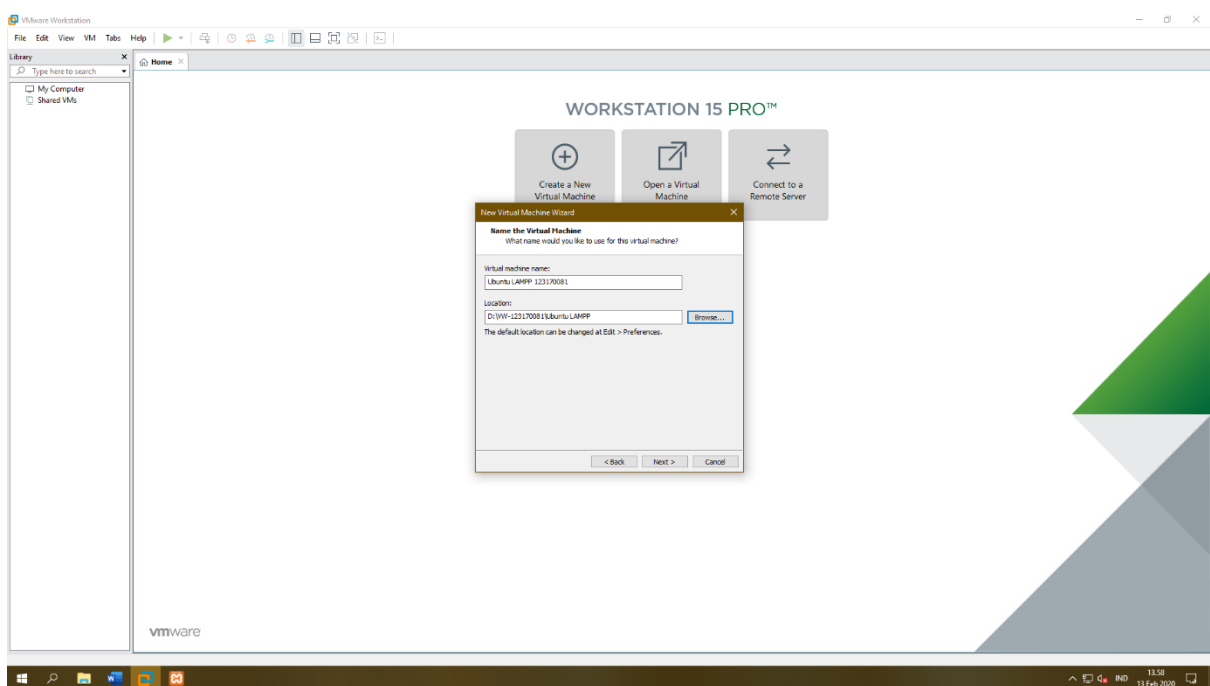
- d. pilih berkas iso sistem operasi untuk VM yang akan dibuat, informasi mengenai kompatibilitas easy instal akan muncul.



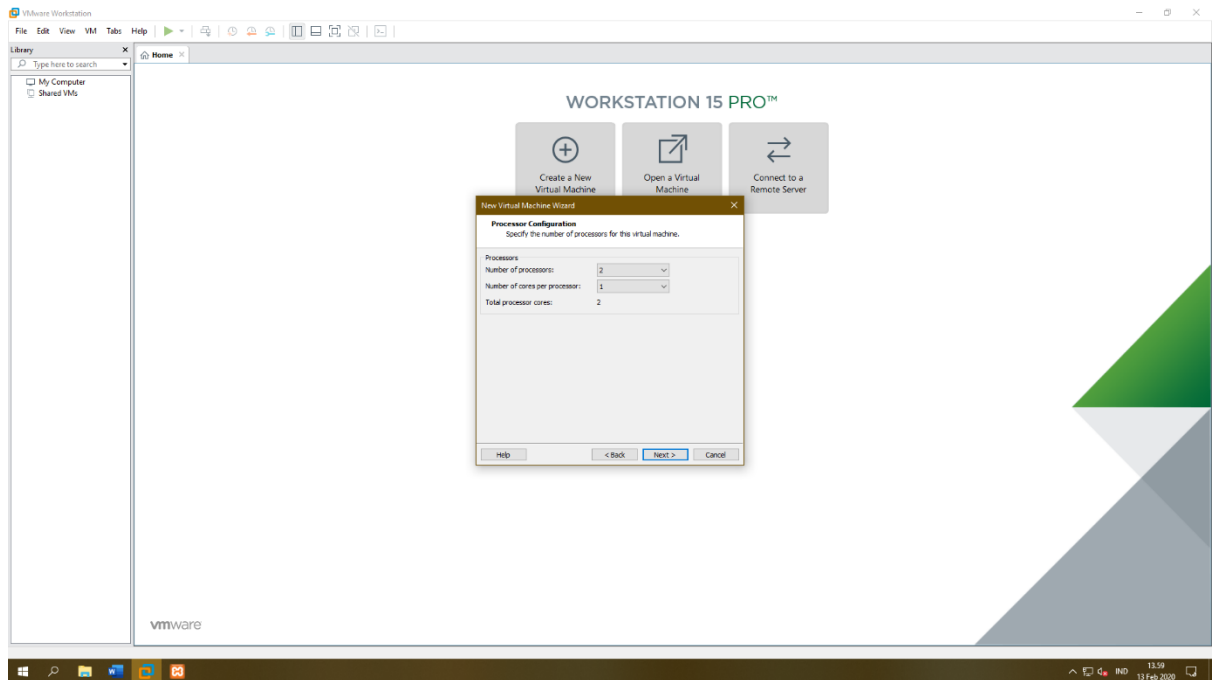
e. Memasukan Data



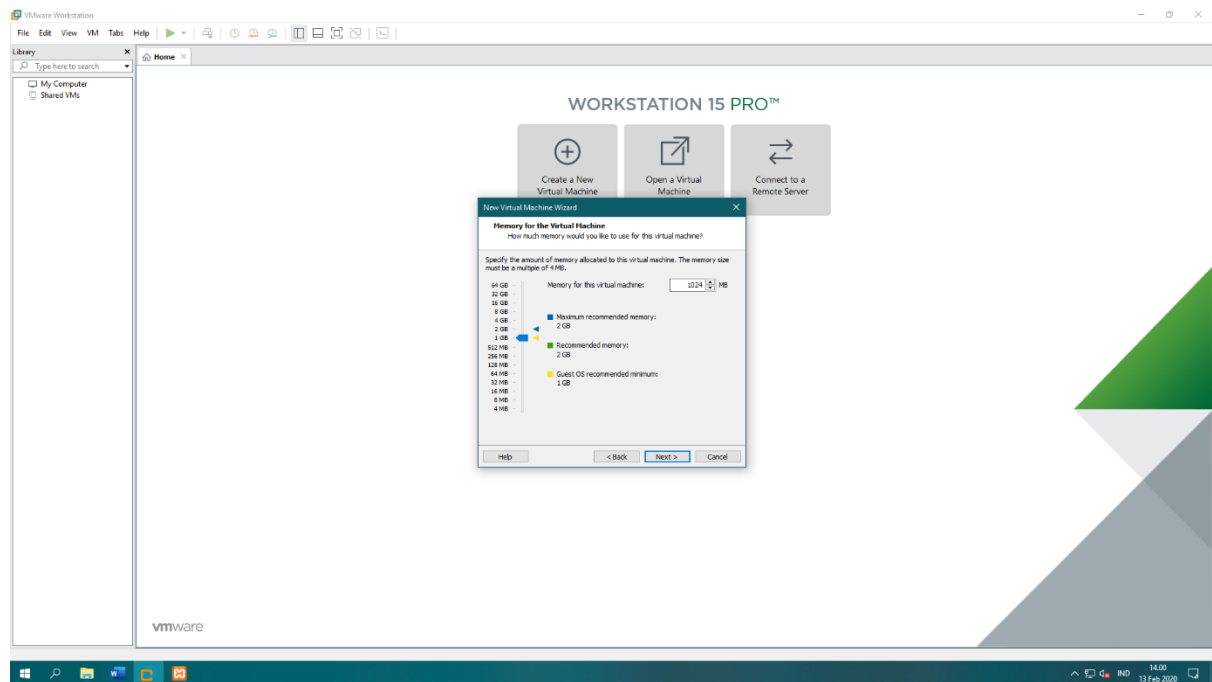
f. Masukan nama dengan format, dan simpan di data D.



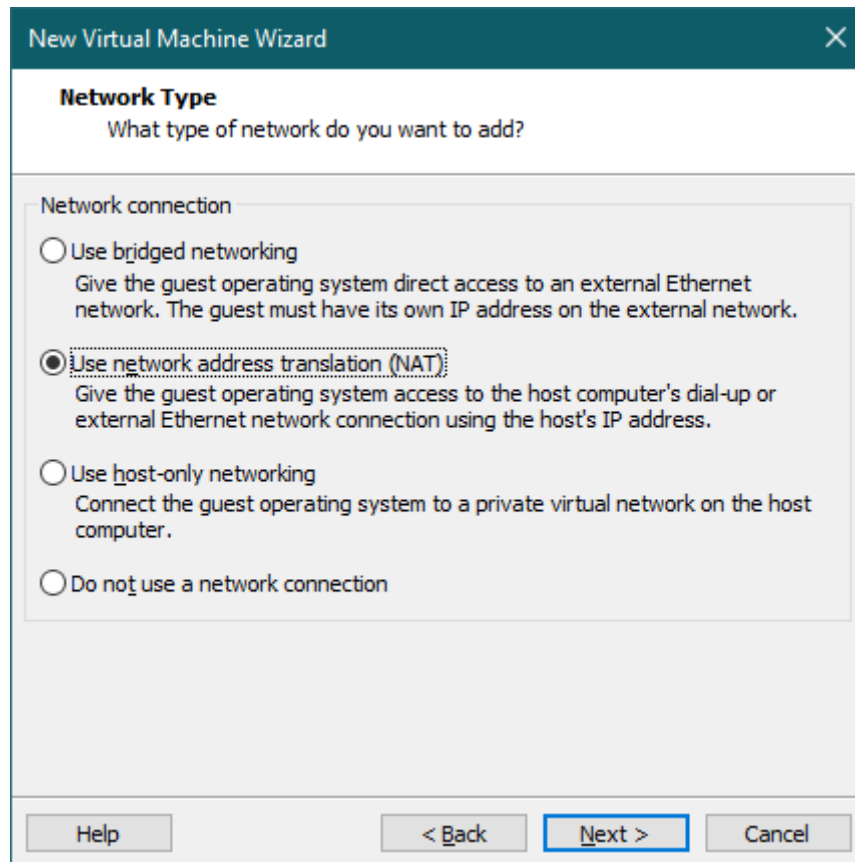
g. Memilih 2 processor dan 1 cores.



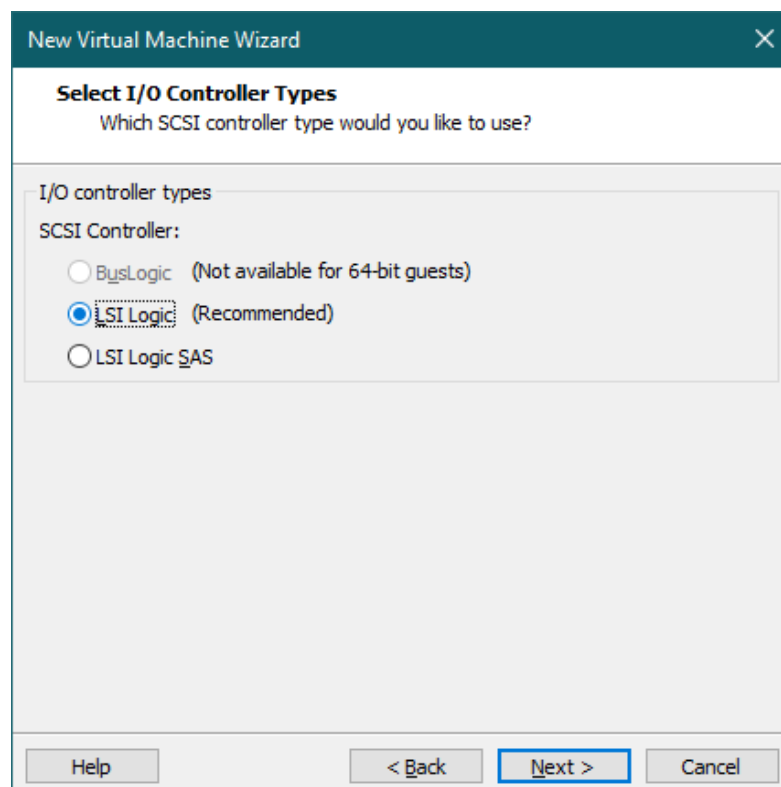
h. Memilih ram 1 gb, dengan cara menggeser, mengklik, dan mengisi langsung didalam kolom.



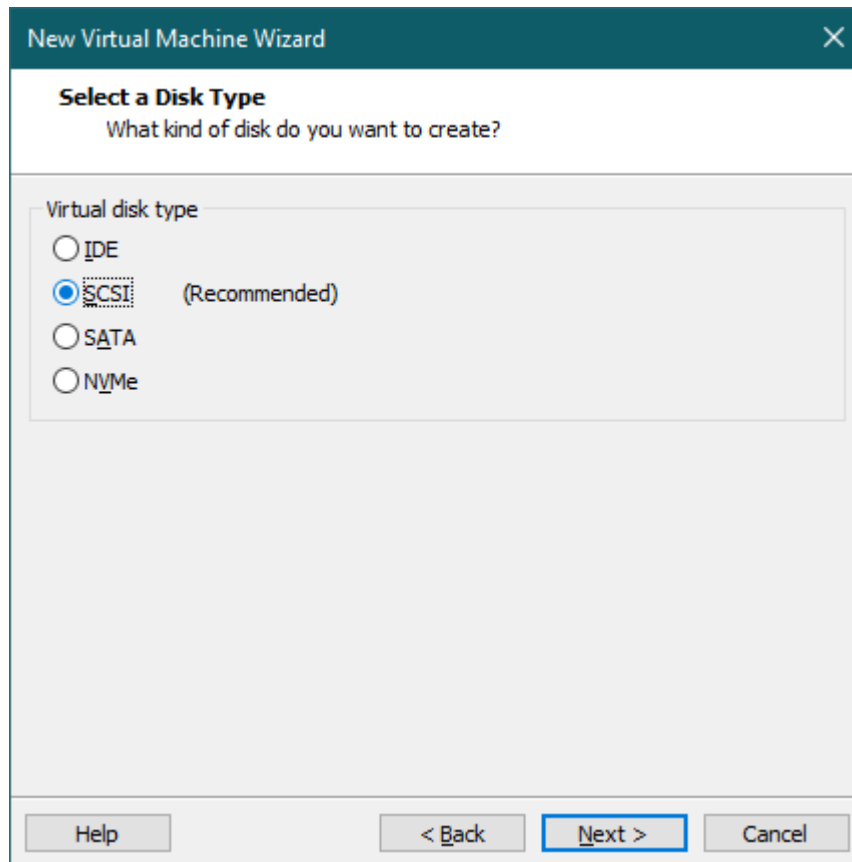
- i. Pilih network tipe NAT, karena tidak mudah diakses dari eksternal.



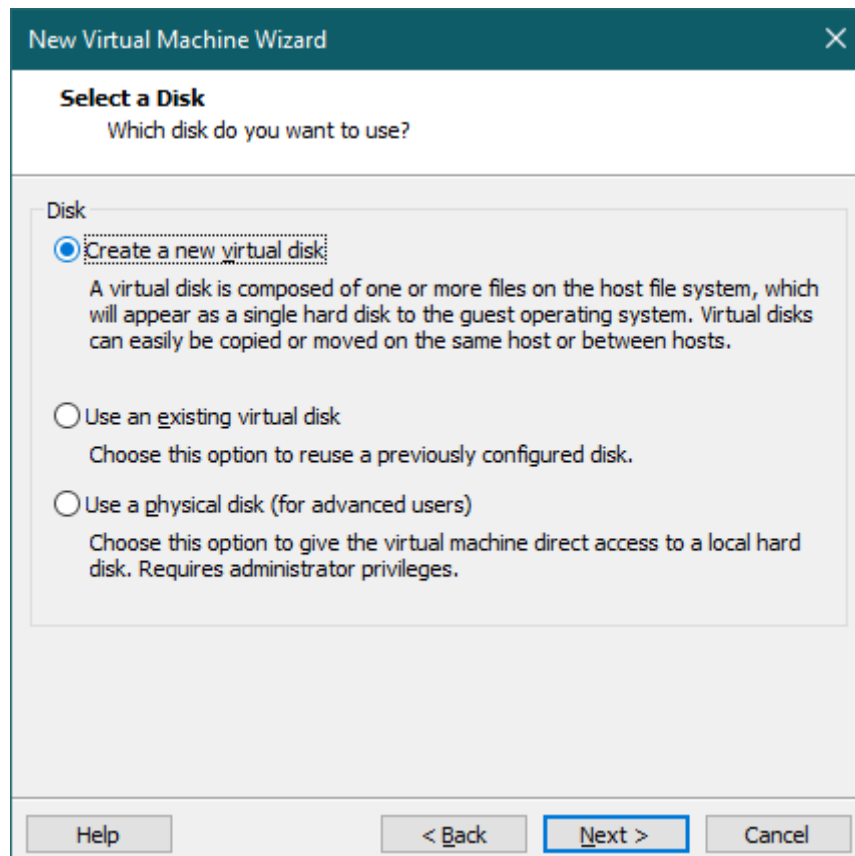
- j. Pilih controller tipe LSI LOGIC .



- k. Pilih SCSI Recommended.

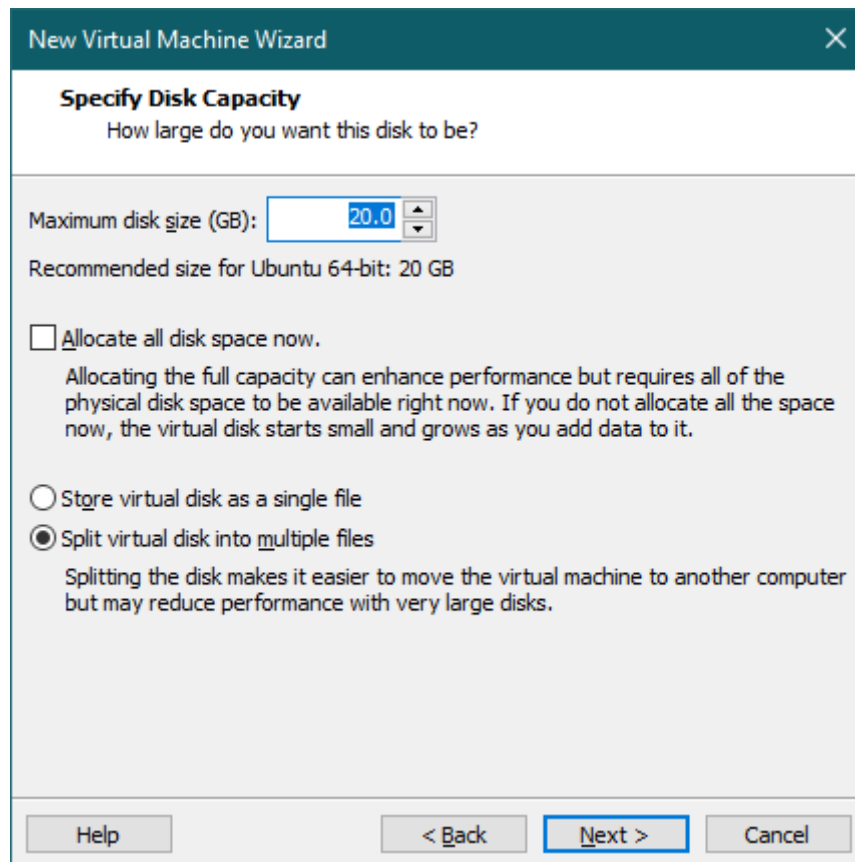


- l. Dikarenakan sebelumnya belum pernah memiliki virtual disk, maka pilih create a new virtual disk .





- m. Gunakan ukuran default yang disarankan untuk ubuntu , yaitu 20 GB.



The screenshot shows the 'Specify Disk Capacity' step of the 'New Virtual Machine Wizard'. The title bar reads 'New Virtual Machine Wizard' with a close button. The main heading is 'Specify Disk Capacity' with the subtitle 'How large do you want this disk to be?'. Below this, there is a text input field for 'Maximum disk size (GB):' with the value '20.0' entered. To the right of the input field is a small up/down arrow button. Below the input field, it says '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). Below the selected option, there is a descriptive text: '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 four buttons: 'Help', '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

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

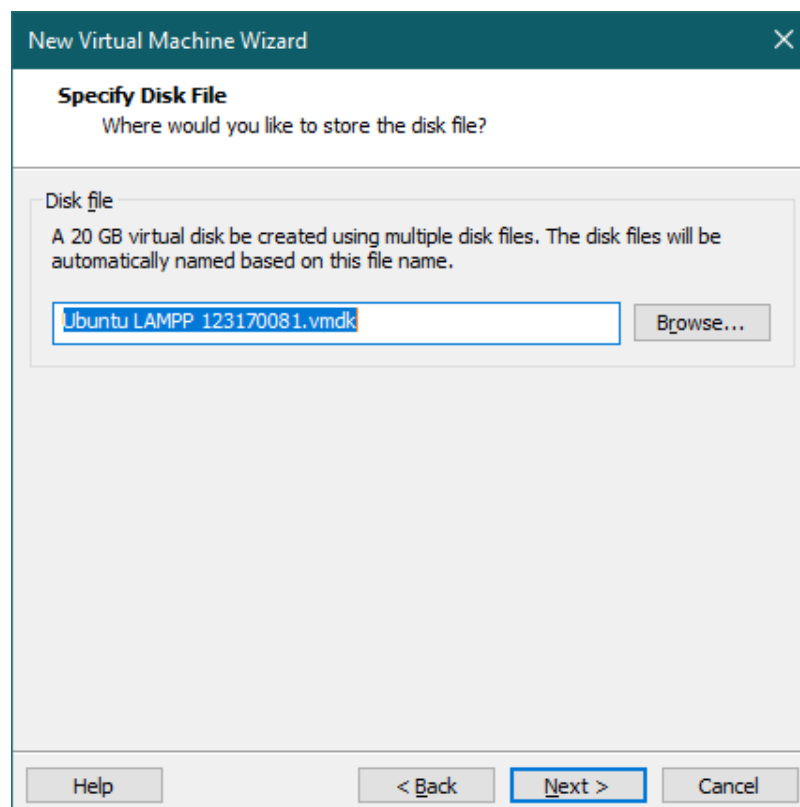
☐ Allocate all disk space now.  
Allocating the full capacity can enhance performance but requires all of the physical disk space to be available right now. If you do not allocate all the space now, the virtual disk starts small and grows as you add data to it.

☐ 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

- n. Tampilan spesifikasi disk file.



The screenshot shows the 'Specify Disk File' step of the 'New Virtual Machine Wizard'. The title bar reads 'New Virtual Machine Wizard' with a close button. The main heading is 'Specify Disk File' with the subtitle 'Where would you like to store the disk file?'. Below this, there is a section titled 'Disk file' with a descriptive text: 'A 20 GB virtual disk be created using multiple disk files. The disk files will be automatically named based on this file name.' Below the text is a text input field containing the filename 'Ubuntu LAMPP 123170081.vmdk'. To the right of the input field is a 'Browse...' button. At the bottom of the window, there are four buttons: 'Help', '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

New Virtual Machine Wizard

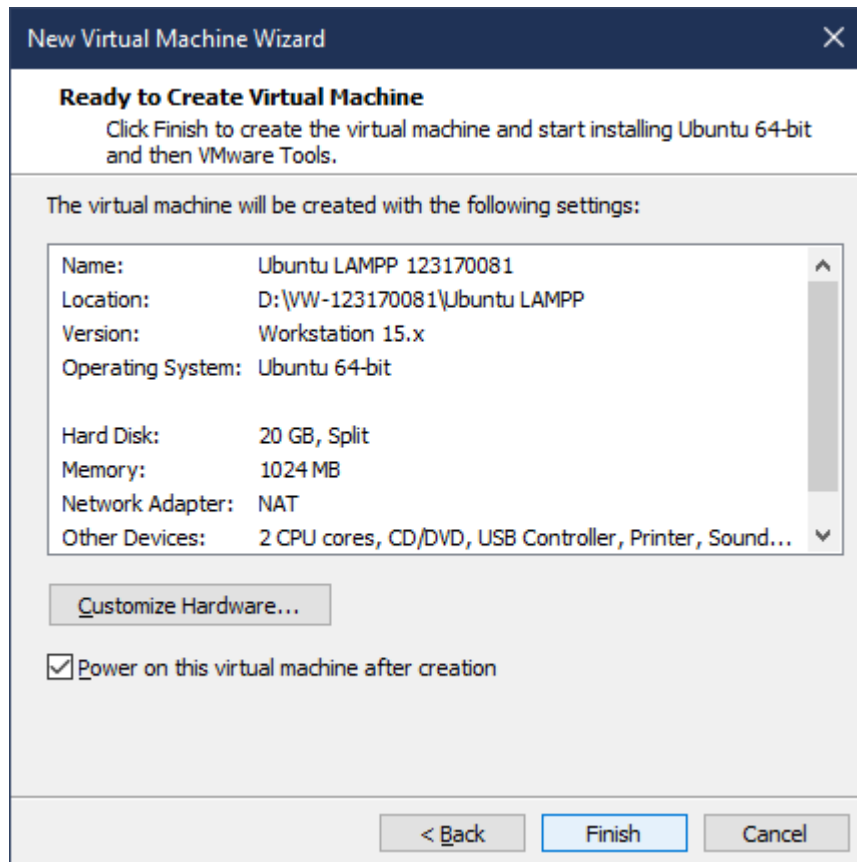
**Specify Disk File**  
Where would you like to store the disk file?

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.

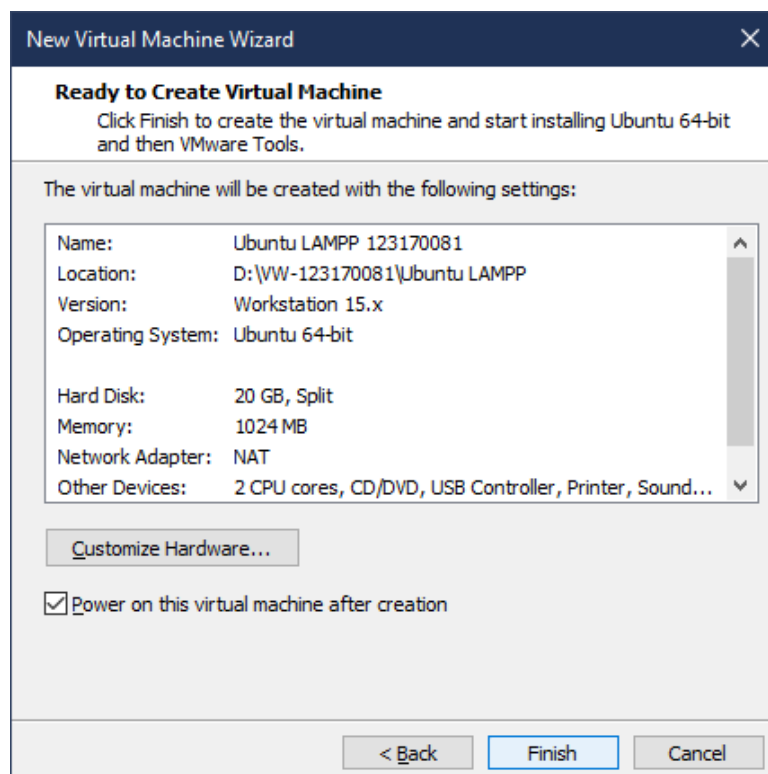
Browse...

Help < Back Next > Cancel

- o. Tampilan semua spesifikasi .

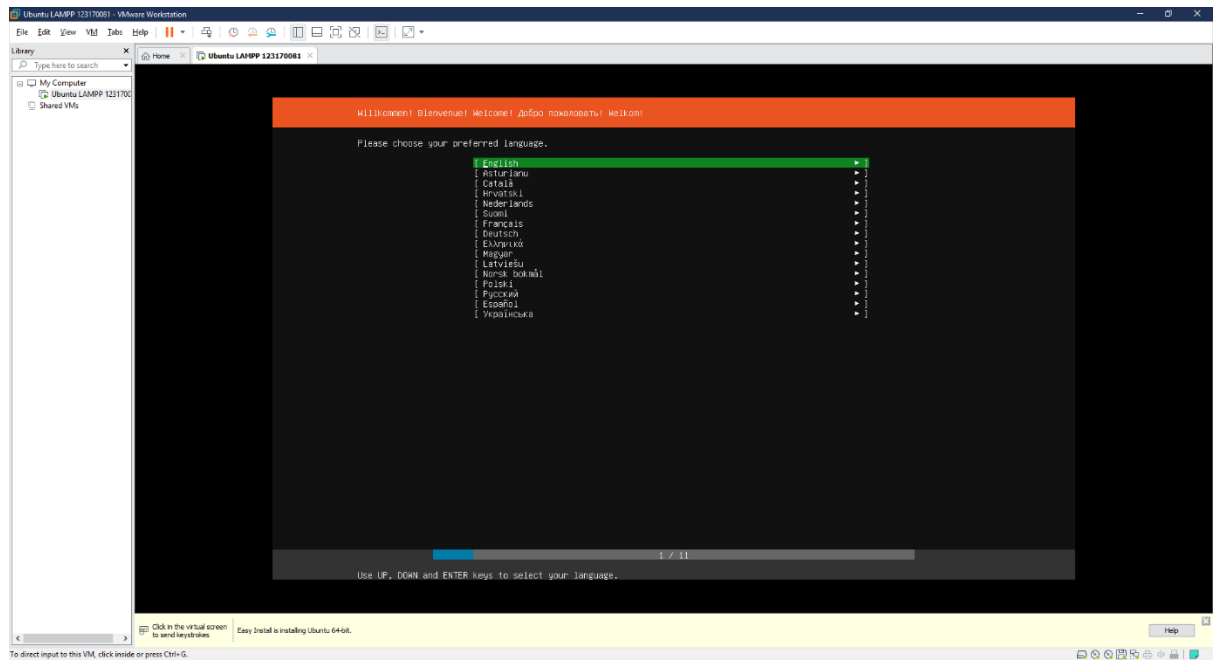


- p. Klik finish.

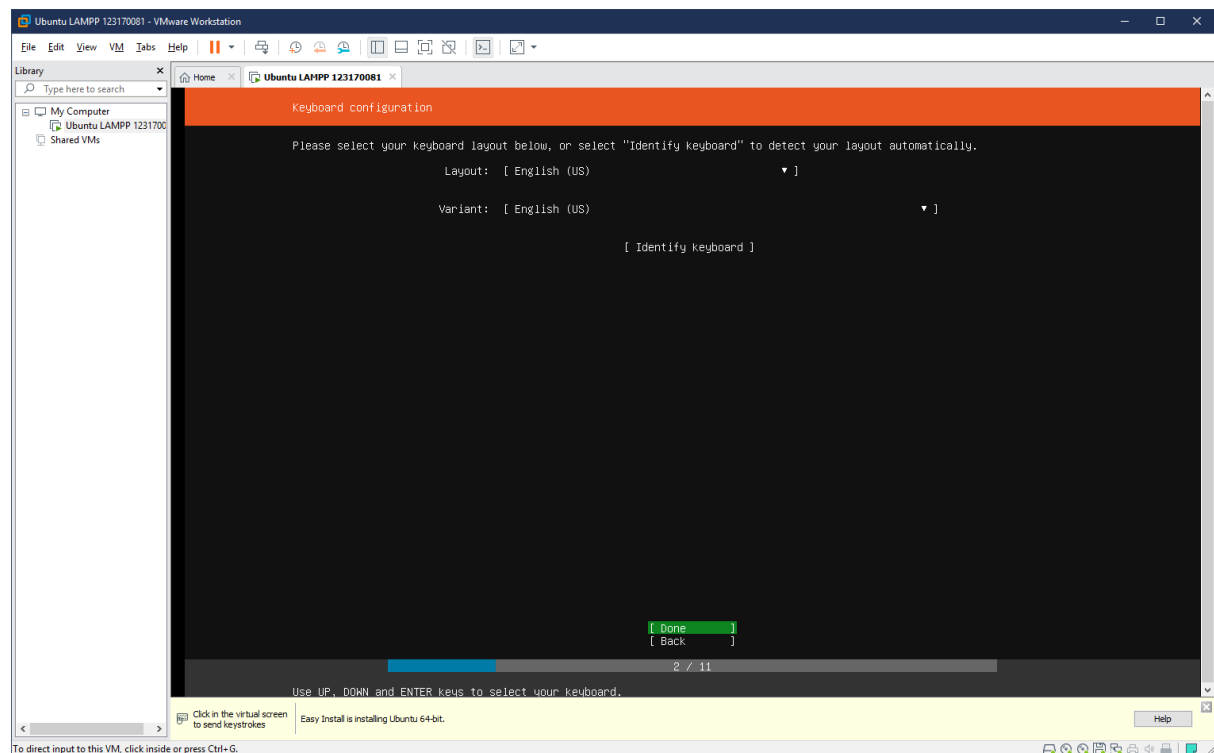


# Instalasi Ubuntu Server

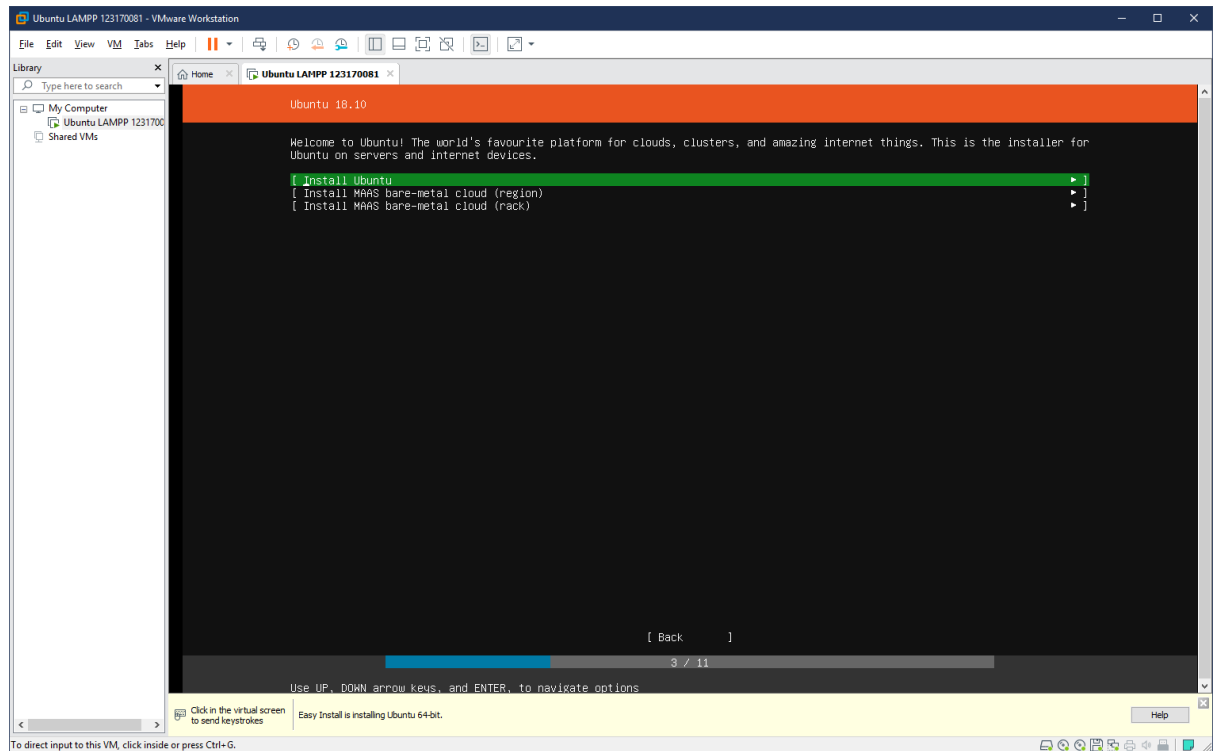
## 1. Pilih bahasa



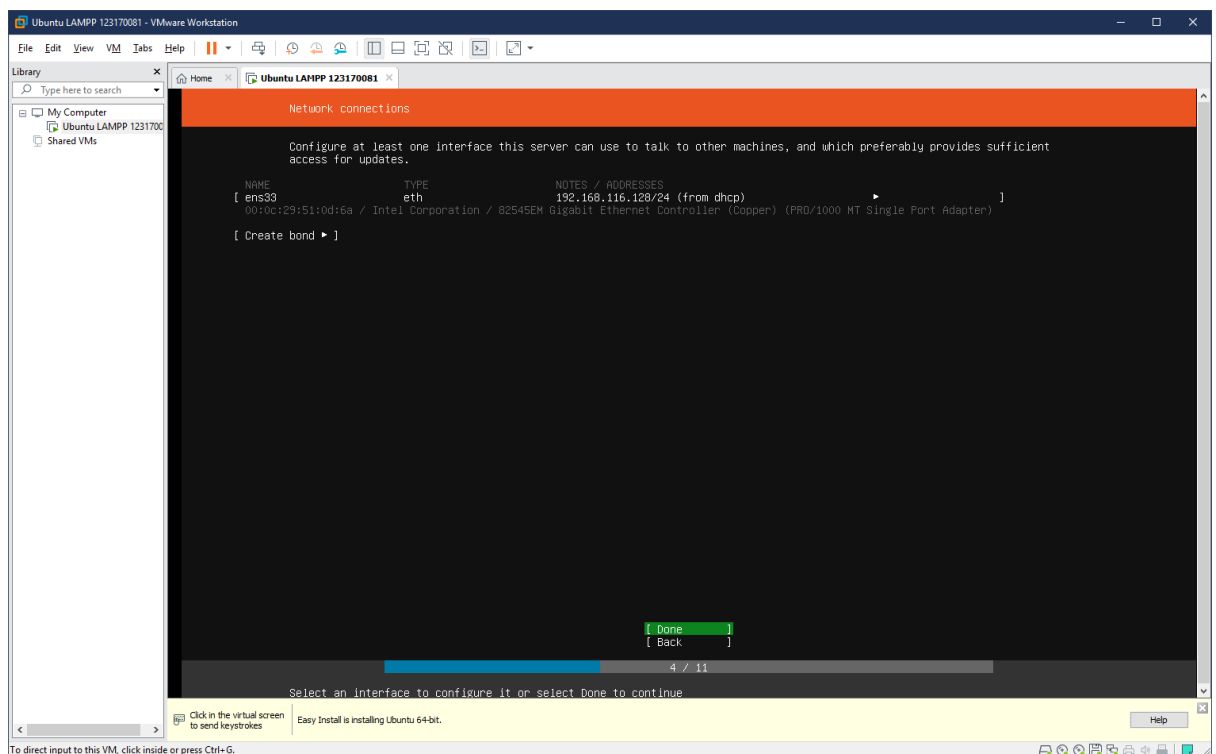
## 2. Pilih keyboard layout



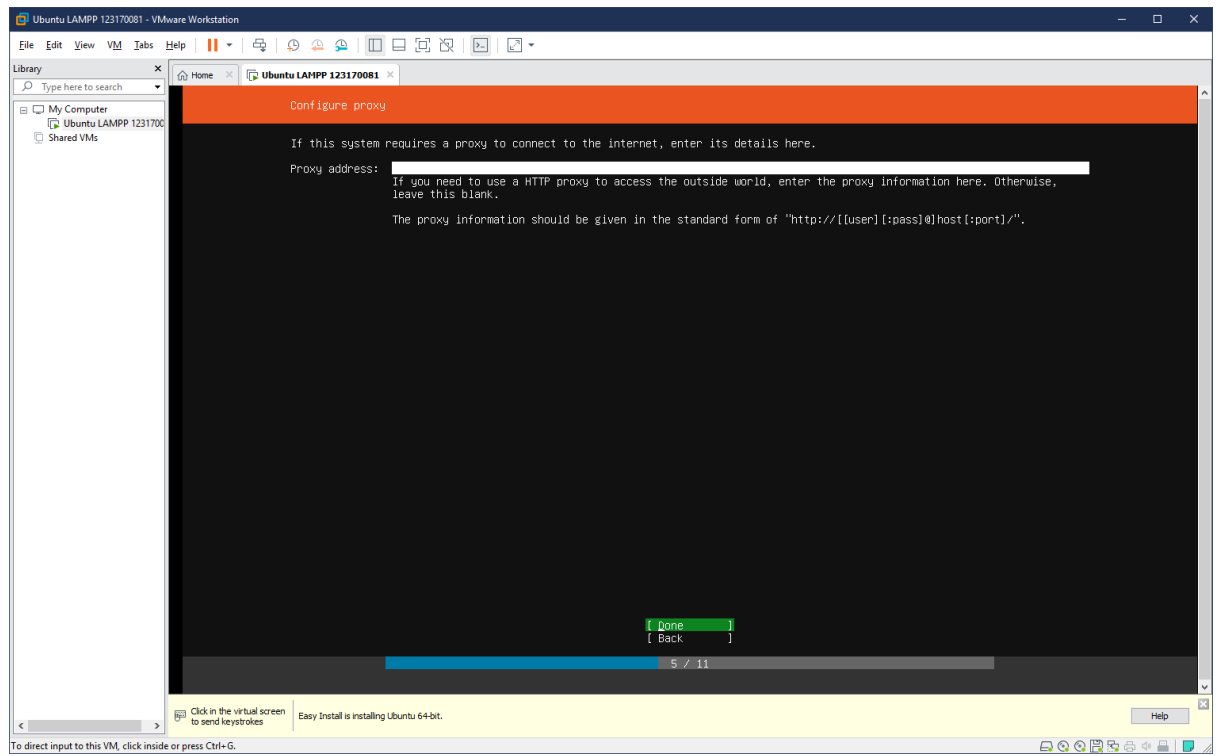
### 3. Pilih model ubuntu



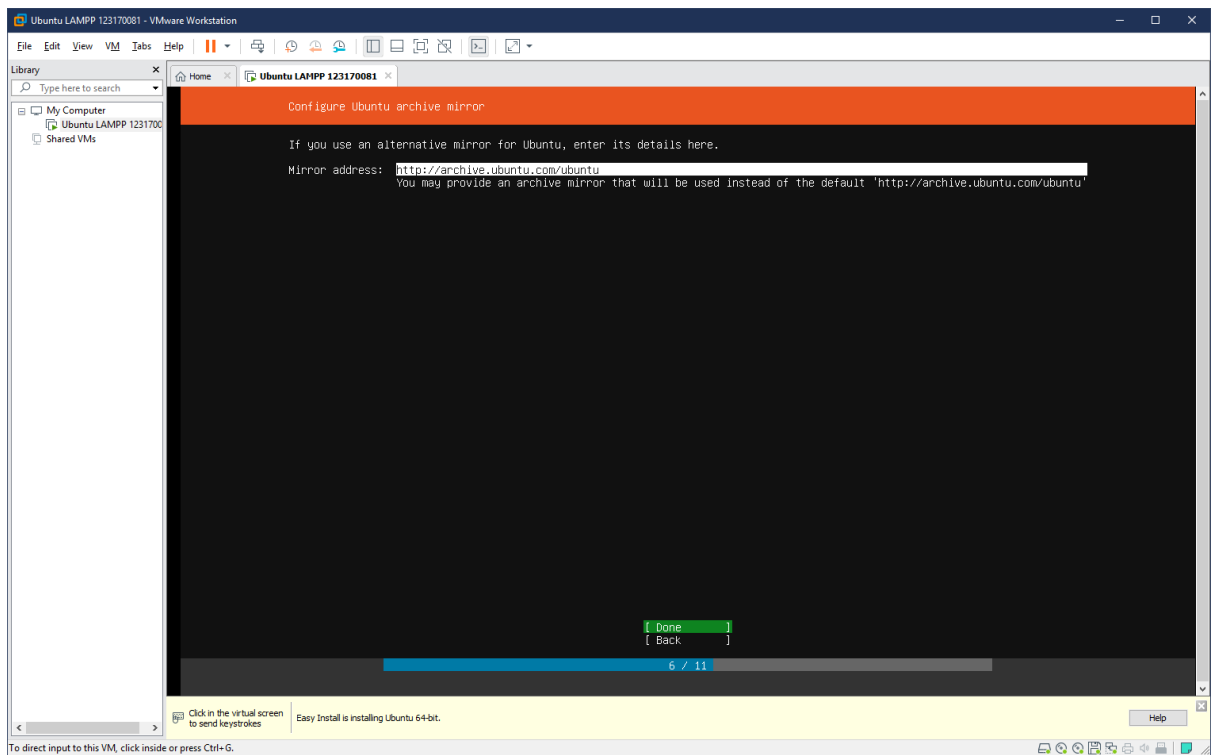
### 4. Lalu pilih konfigurasi jaringan, akan tampil IP dari mode NAT



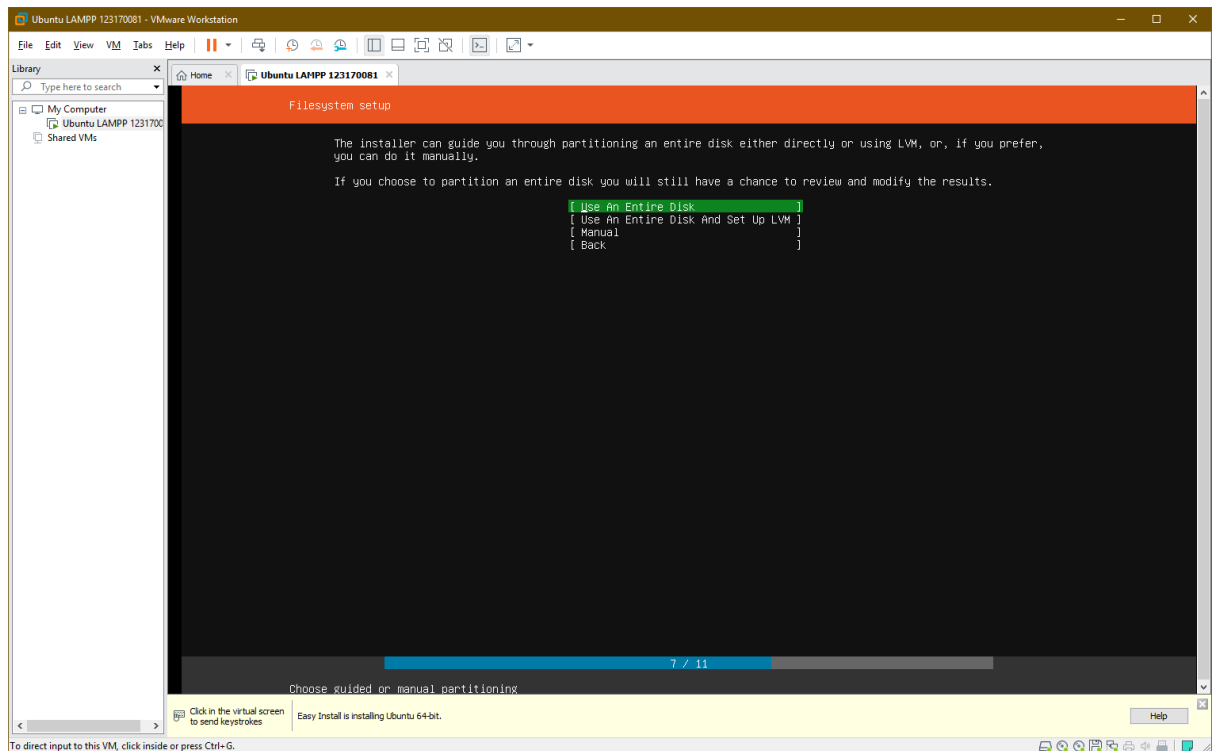
## 5. Pada menu proxy, dikosongkan saja



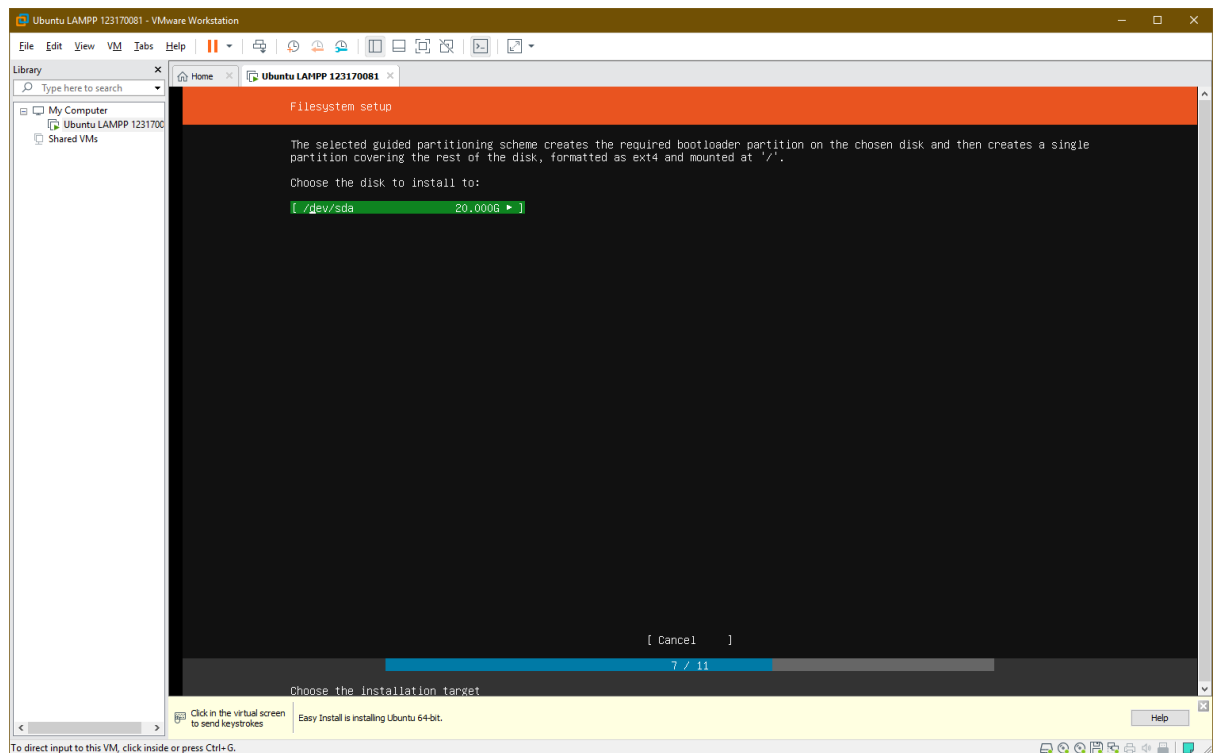
## 6. Mirror address



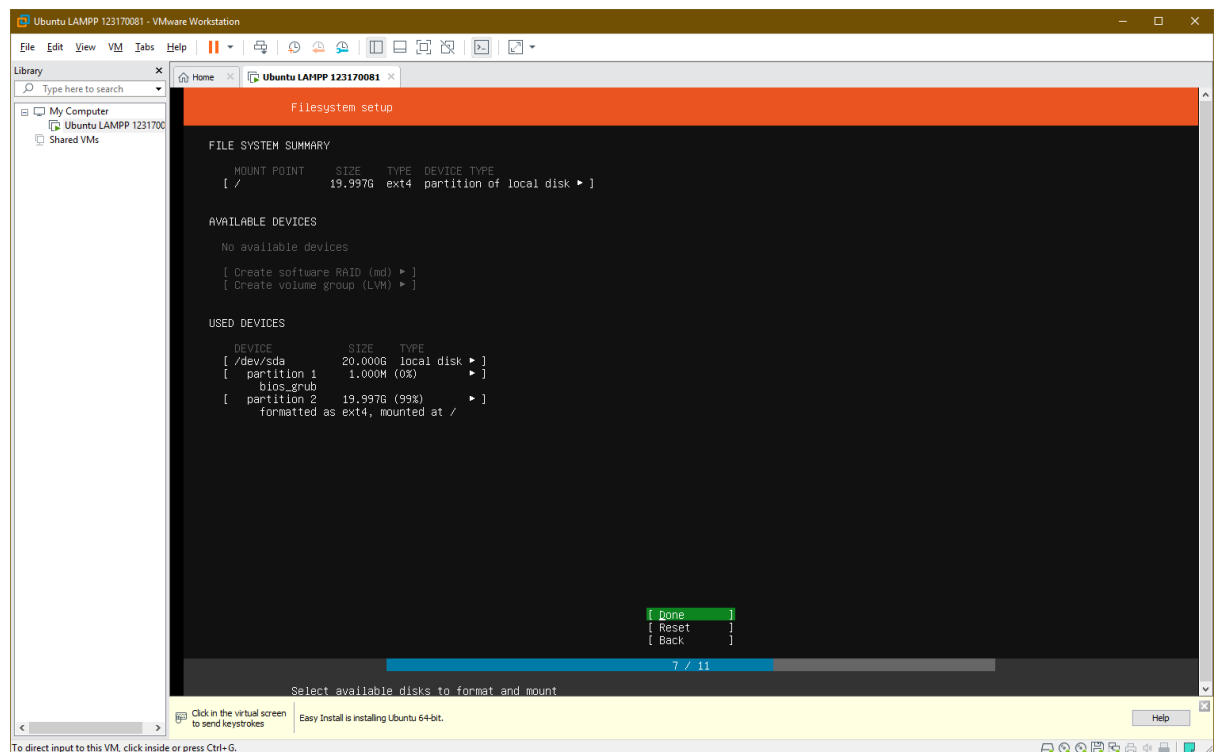
## 7. Gunakan Pengaturan Use An Entire Disk



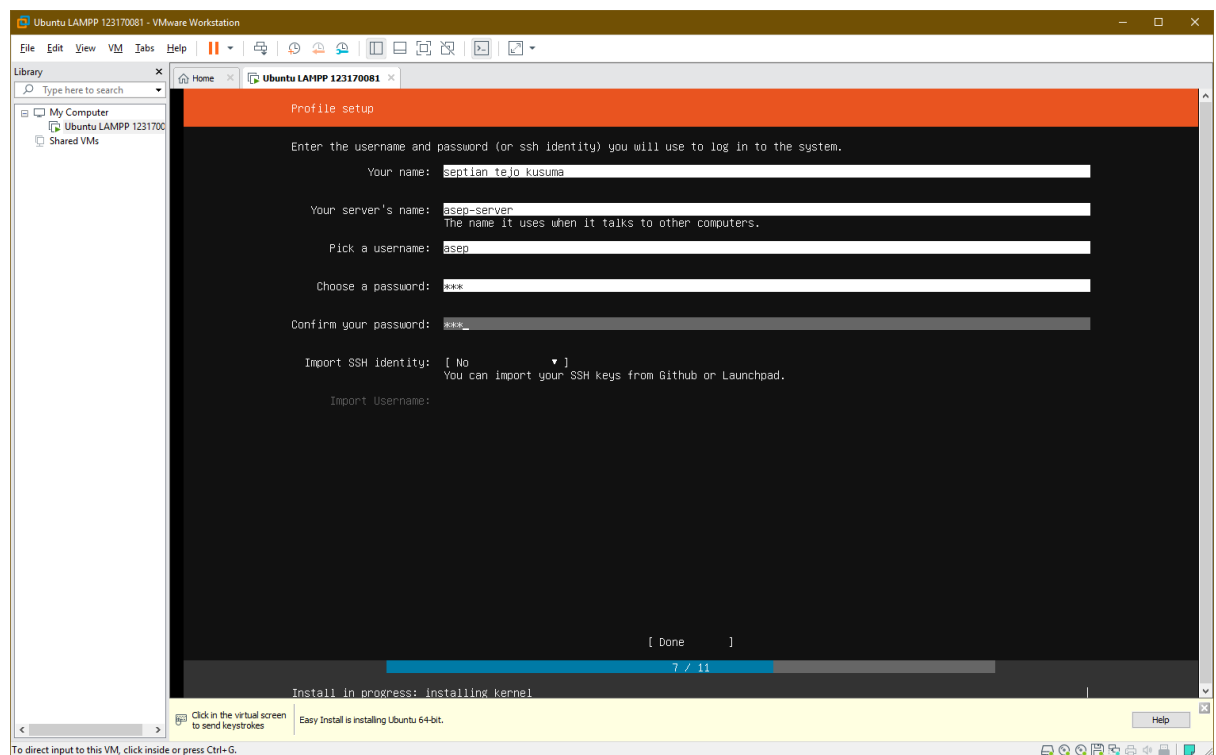
## 8. Pilih lokasi Harddisk yang dev/sda



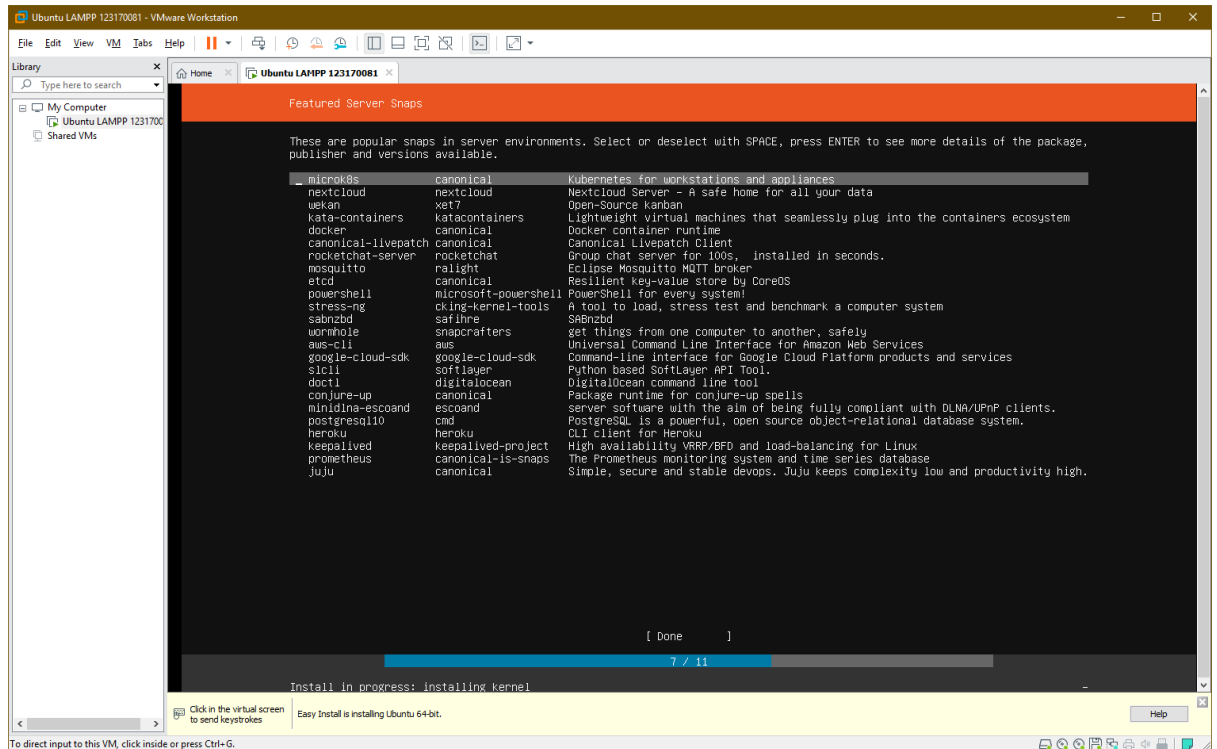
## 9. Konfirmasi Akhir



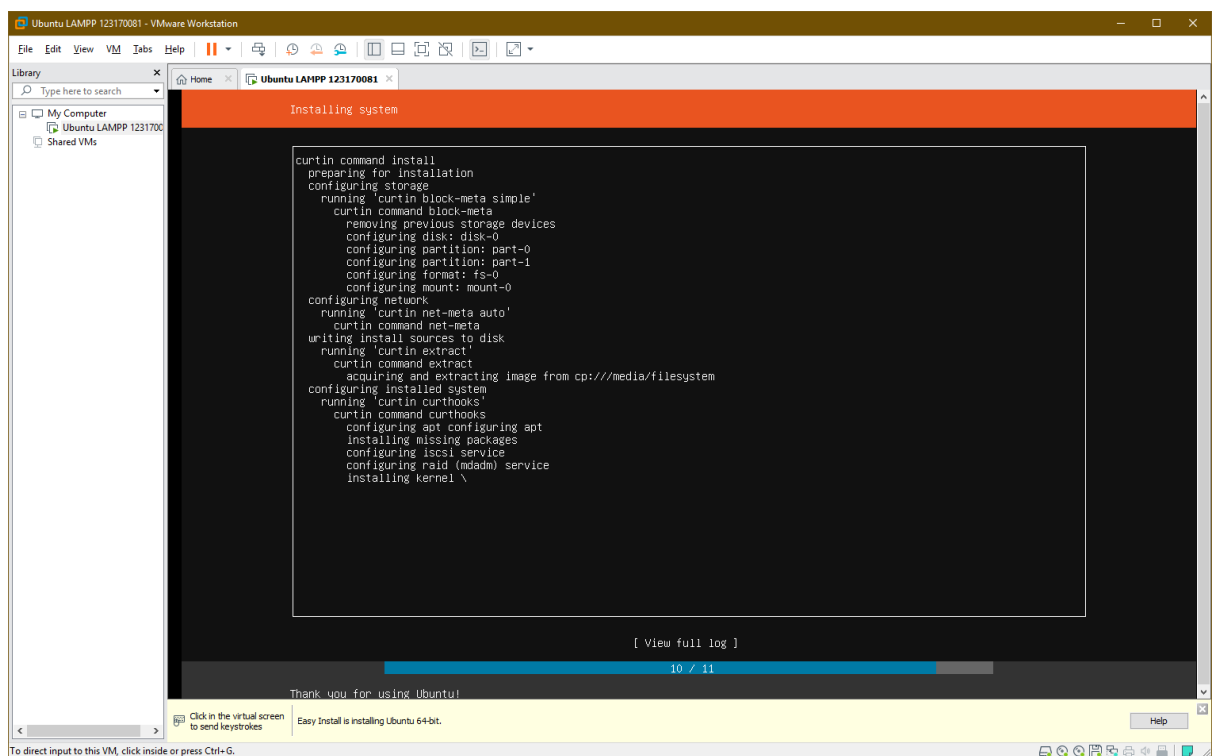
## 10. Isi data diri dan jangan sampai lupa



## 11. Featured server snaps

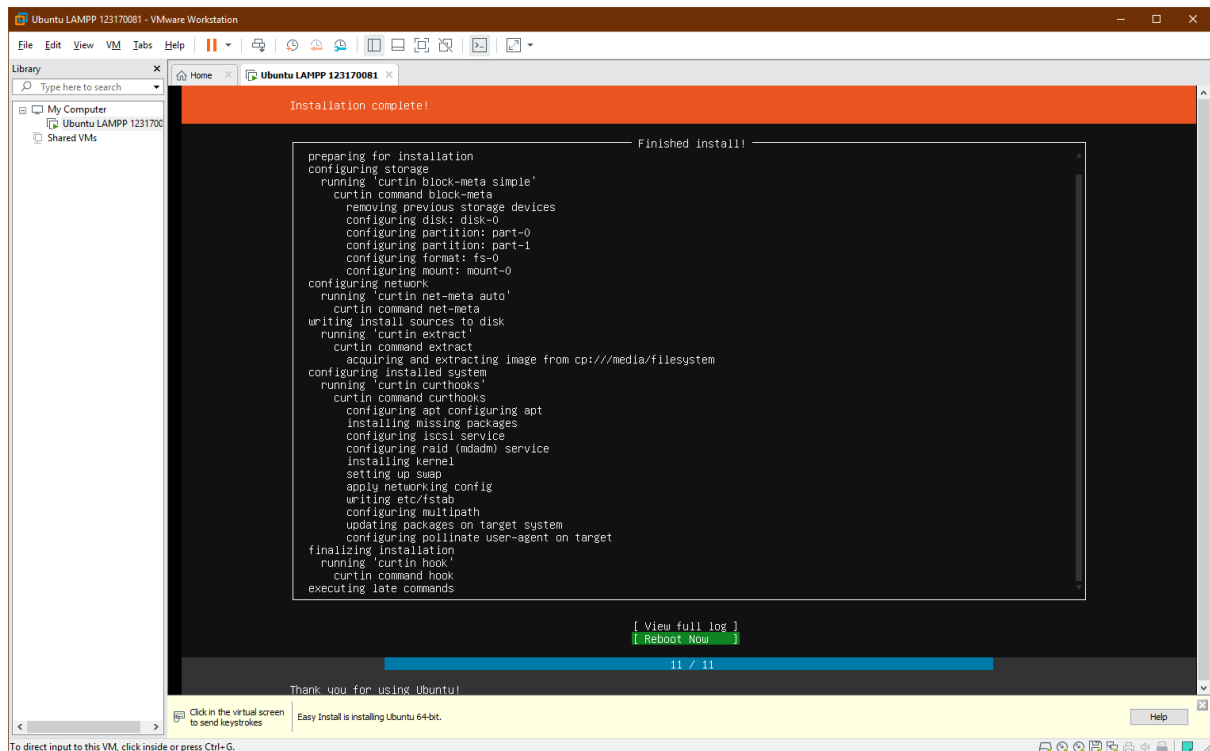


## 12. Proses Installing System

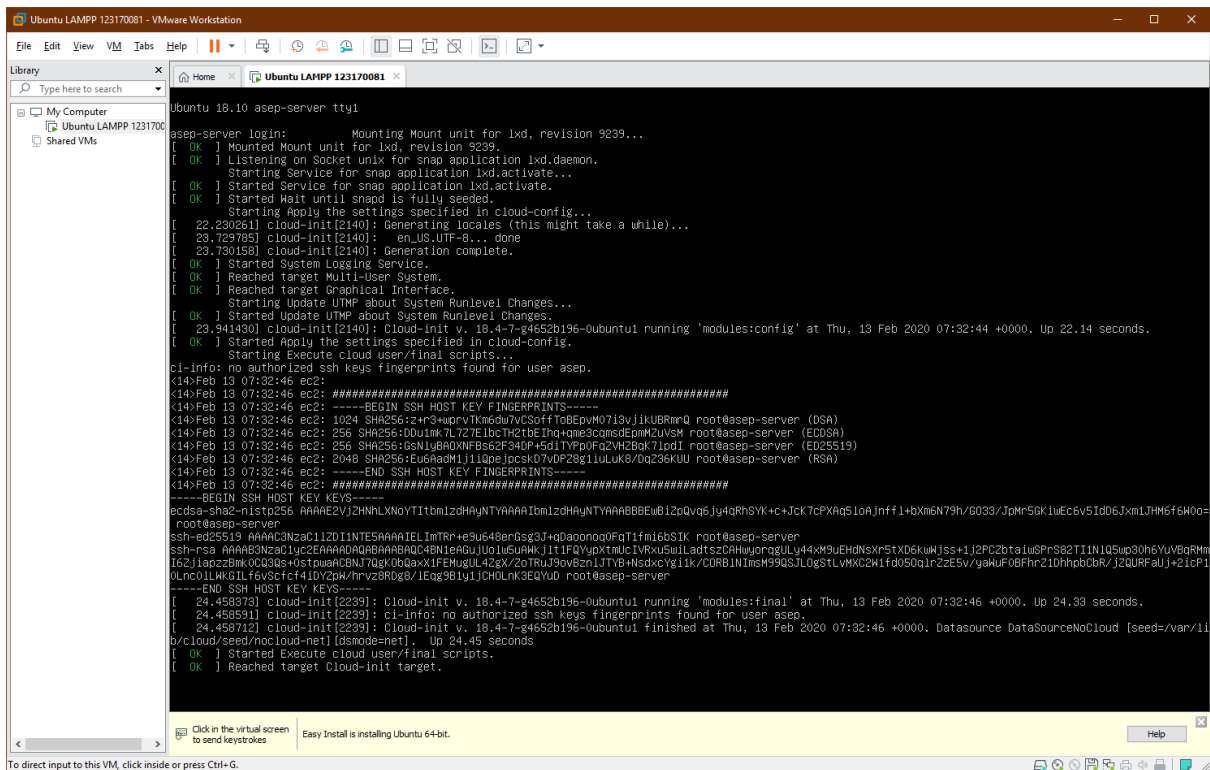




13. Ketika selesai, klik reboot now

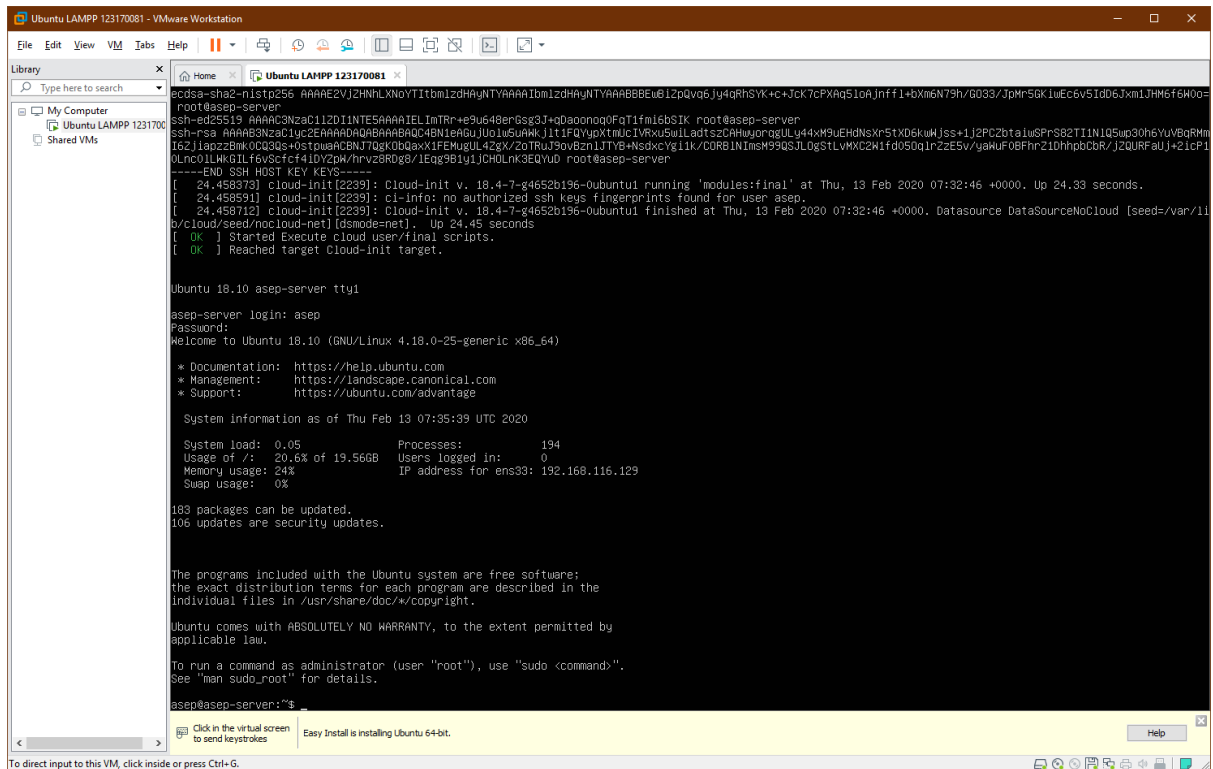


#### 14. Tanda selesai reboot



# Mencoba UBUNTU

## 1. Memasukan username dan password untuk masuk ke dalam dashboard



```
Ubuntu LAMPP 123170081 - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu LAMPP 123170081
Shared VMs

root@asep-server:~# ssh-ed25519 AAAAC3NzaC1lZD11NTU5AAAAIeLmTr+e9u648erGs3J+qdaoonoq0FqT1fml6bSIK root@asep-server
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCA4BN1eAGuJ0u1u5uAKkJ1t1FQYpXtmUcIVRxsuLlAdtszCAHwyorgqULy44xM9UEHdNsXrStX06kuJss+1j2PC2btaLuSprS82TI1N1Q5up30h6YuvBqRmH
16ZJ1apzzBmkOCQ3Qs+ostpuhACBNJ7qgK0bQaxX1FEMuGUL42gX/2oTRUJ9ovBzn1JTYB+NsdcxYg11k/CORBINm9Q5JL0gStLVmXC2W1f050q1r2ZE5v/yakuf0BFhrZ10hhpbCbr/J2QURFAUJ+21cP1
OLnc0LLKGL1f6vScfcf41DYZpw/hrvz8RDg8/1Eqg9B1y1JCHOLnk3EQVud root@asep-server
-----END SSH HOST KEY KEYS-----
[ 24.458373] cloud-init[2239]: Cloud-init v. 18.4-7-g4652b196-0ubuntu1 running 'modules:final' at Thu, 13 Feb 2020 07:32:46 +0000. Up 24.33 seconds.
[ 24.458591] cloud-init[2239]: ci-info: no authorized ssh keys fingerprints found for user asep.
[ 24.458712] cloud-init[2239]: Cloud-init v. 18.4-7-g4652b196-0ubuntu1 finished at Thu, 13 Feb 2020 07:32:46 +0000. DataSource DataSourceNoCloud [seed=/var/lib/cloud/seed/nocloud-net][dsmode=net]. Up 24.45 seconds
[ OK ] Started Execute cloud user/final scripts.
[ OK ] Reached target Cloud-init target.

Ubuntu 18.10 asep-server tty1
asep-server login: asep
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 Thu Feb 13 07:35:39 UTC 2020

System load:  0.05          Processes:      194
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%

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

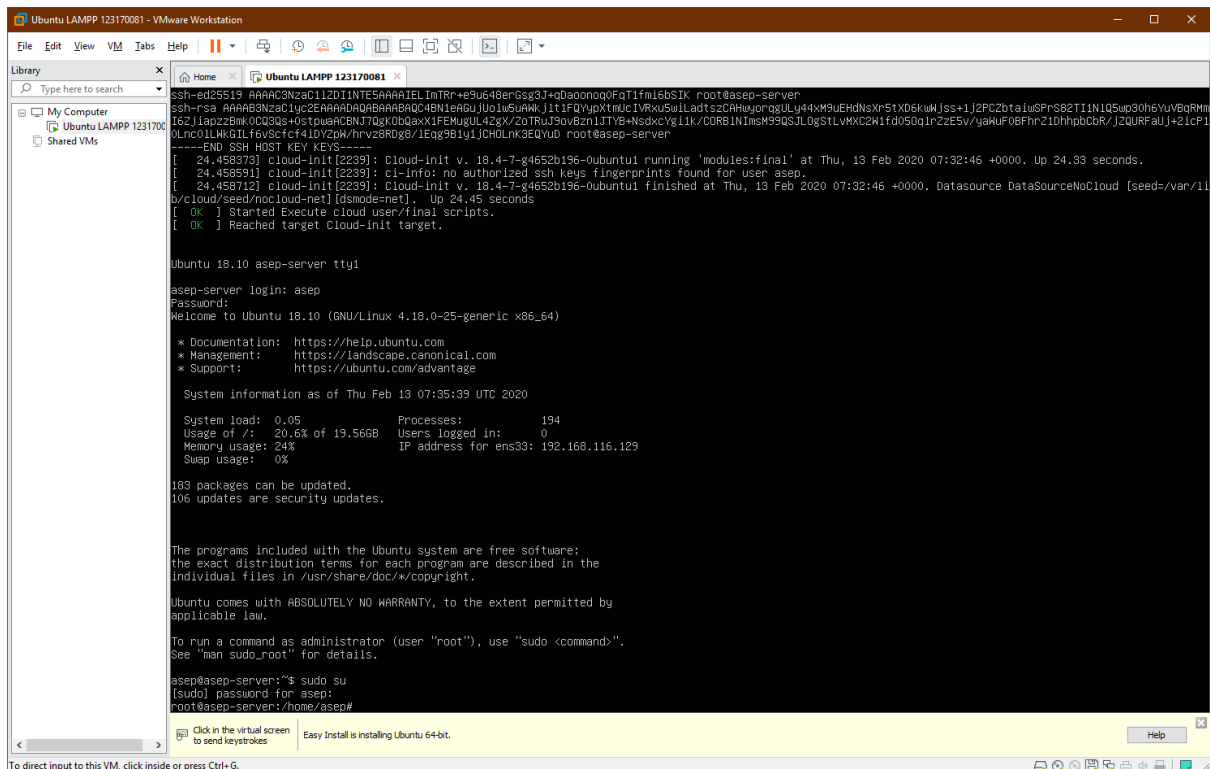
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To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

asep@asep-server:~$
```

## 2. Mencoba berpindah ke akun root, dengan menginput sudo su



```
Ubuntu LAMPP 123170081 - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu LAMPP 123170081
Shared VMs

root@asep-server:~# ssh-ed25519 AAAAC3NzaC1lZD11NTU5AAAAIeLmTr+e9u648erGs3J+qdaoonoq0FqT1fml6bSIK root@asep-server
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCA4BN1eAGuJ0u1u5uAKkJ1t1FQYpXtmUcIVRxsuLlAdtszCAHwyorgqULy44xM9UEHdNsXrStX06kuJss+1j2PC2btaLuSprS82TI1N1Q5up30h6YuvBqRmH
16ZJ1apzzBmkOCQ3Qs+ostpuhACBNJ7qgK0bQaxX1FEMuGUL42gX/2oTRUJ9ovBzn1JTYB+NsdcxYg11k/CORBINm9Q5JL0gStLVmXC2W1f050q1r2ZE5v/yakuf0BFhrZ10hhpbCbr/J2QURFAUJ+21cP1
OLnc0LLKGL1f6vScfcf41DYZpw/hrvz8RDg8/1Eqg9B1y1JCHOLnk3EQVud root@asep-server
-----END SSH HOST KEY KEYS-----
[ 24.458373] cloud-init[2239]: Cloud-init v. 18.4-7-g4652b196-0ubuntu1 running 'modules:final' at Thu, 13 Feb 2020 07:32:46 +0000. Up 24.33 seconds.
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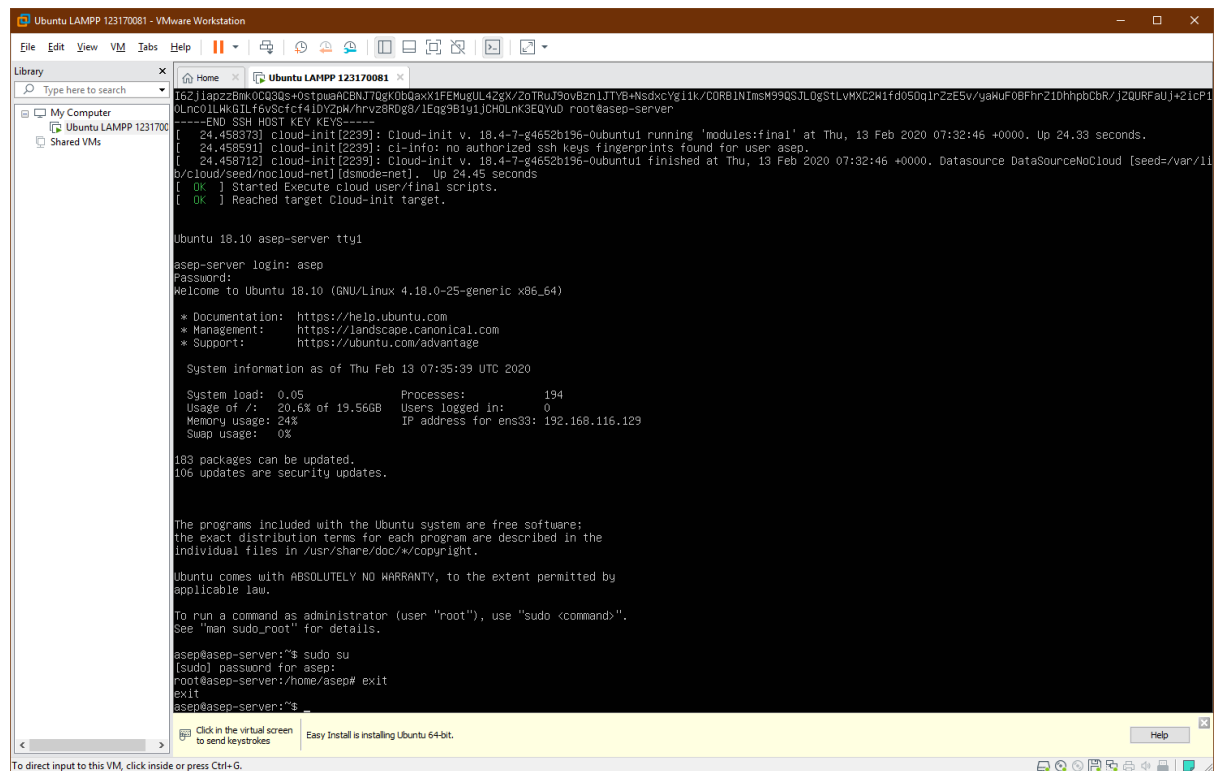
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See "man sudo_root" for details.

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

### 3. Untuk keluar dari akun root, klik exit



```
ig2jlap22Bmk0CQ3Qs+OstpuwACBNJ7QgK0bQaxX1FEMugUL42gK/2oTRuJ9ovBznIJTVB+Nsdxcvg11k/CORR1InmsM99QSLJ0gStLVMXC21f0d050q1r2ZE5v/yakuF0BPhr210hhpbCbR/j2QURFaUj+21cP1
OLncoILKkGILf6vScfcf4IDVZpW/hrvz8Rdg8/IEqg9Bi9IjCHOLnk3EQYUd root@asep-server
-----END SSH HOST KEY KEYS-----
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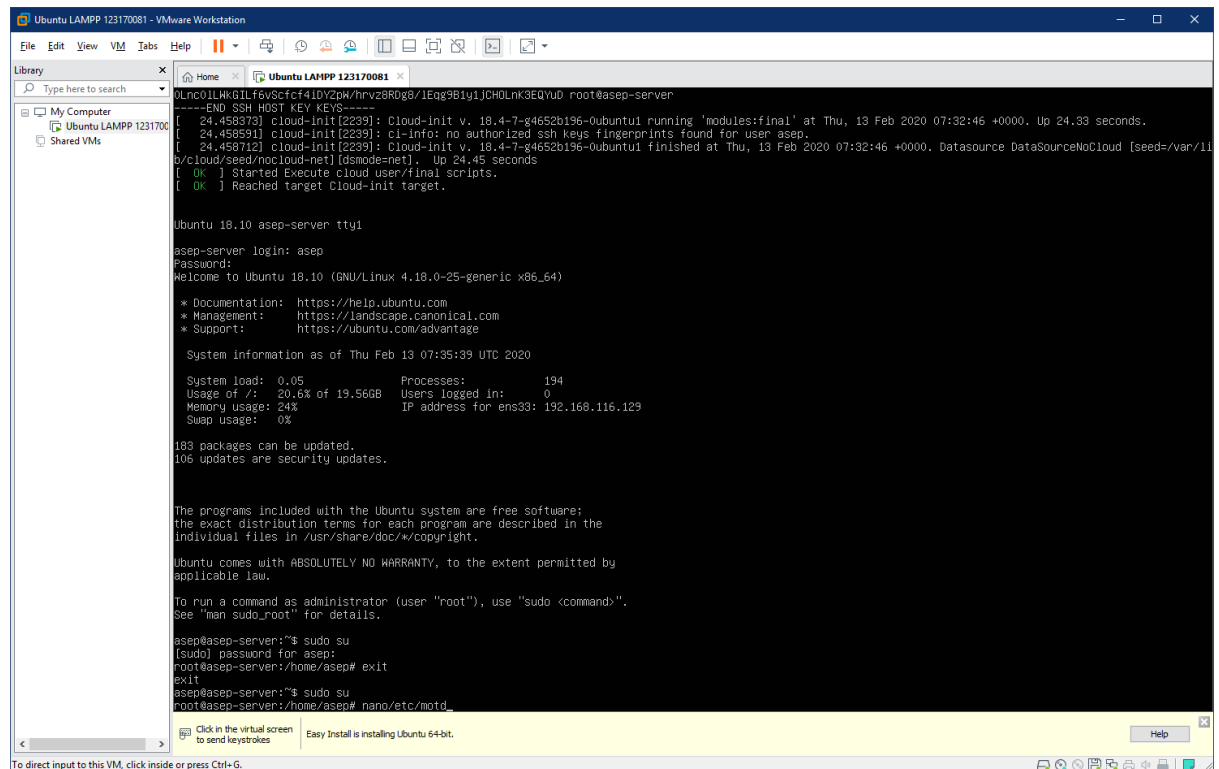
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asep@asep-server:~$ sudo su
[sudo] password for asep:
root@asep-server:/home/asep# exit
exit
asep@asep-server:~$
```

### 4. Mencoba mengubah pesan MOTD, dengan pindah akun ke root, lalu ketikkan perintah nano /etc/motd



```
OLncoILKkGILf6vScfcf4IDVZpW/hrvz8Rdg8/IEqg9Bi9IjCHOLnk3EQYUd root@asep-server
-----END SSH HOST KEY KEYS-----
[ 24.458373] cloud-init[2239]: Cloud-init v. 18.4-7-g4652b196-0ubuntu1 running 'modules:final' at Thu, 13 Feb 2020 07:32:46 +0000. Up 24.33 seconds.
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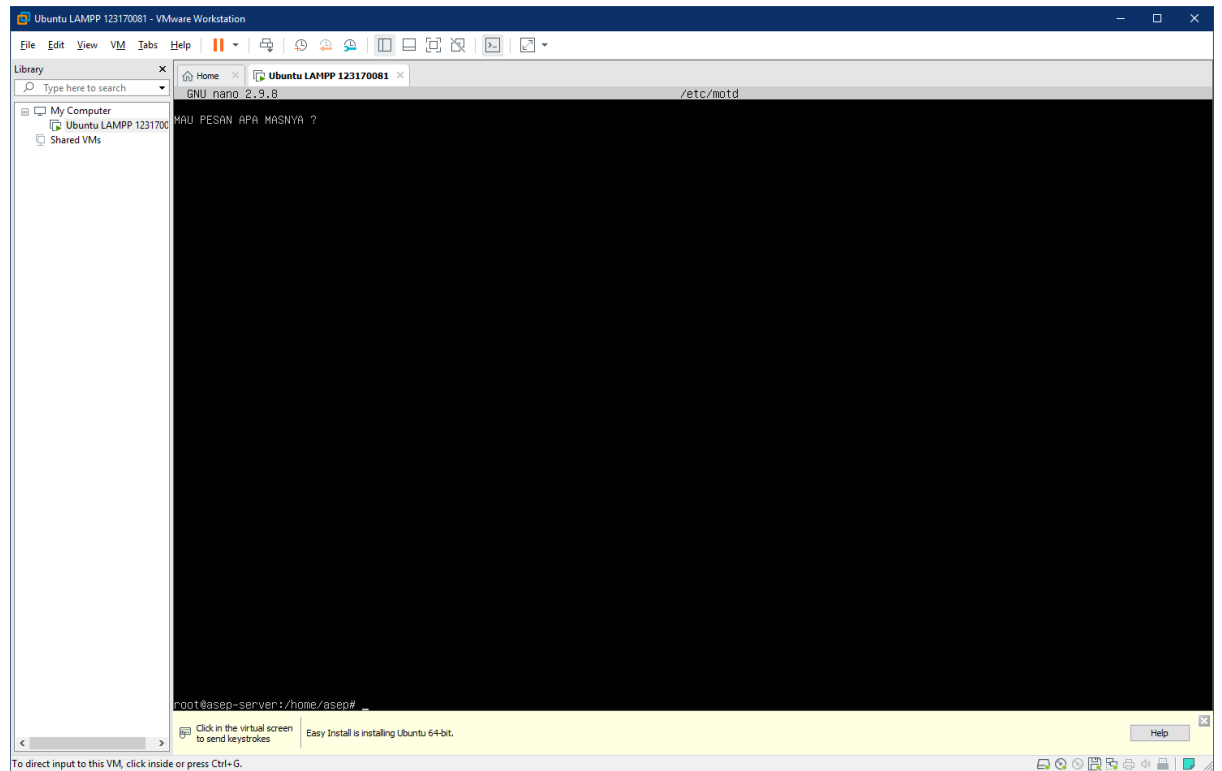
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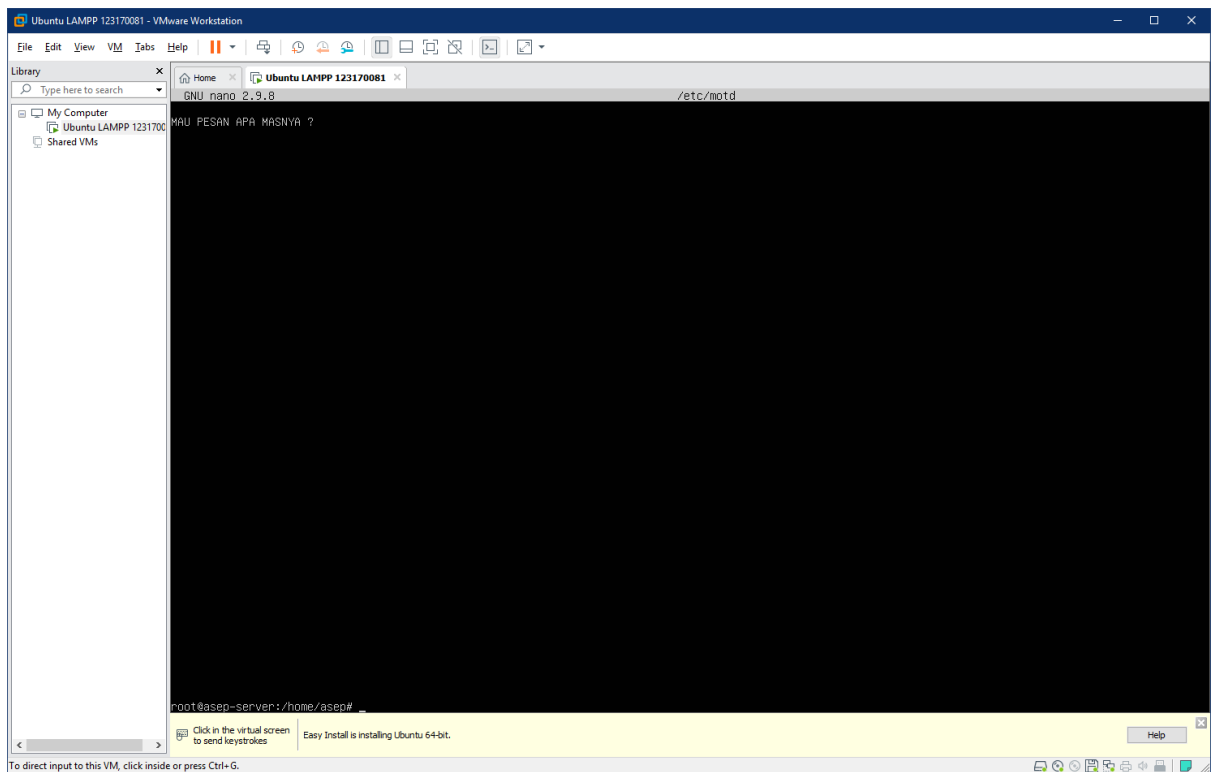
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

asep@asep-server:~$ sudo su
[sudo] password for asep:
root@asep-server:/home/asep# exit
exit
asep@asep-server:~$ sudo su
root@asep-server:/home/asep# nano /etc/motd_
```

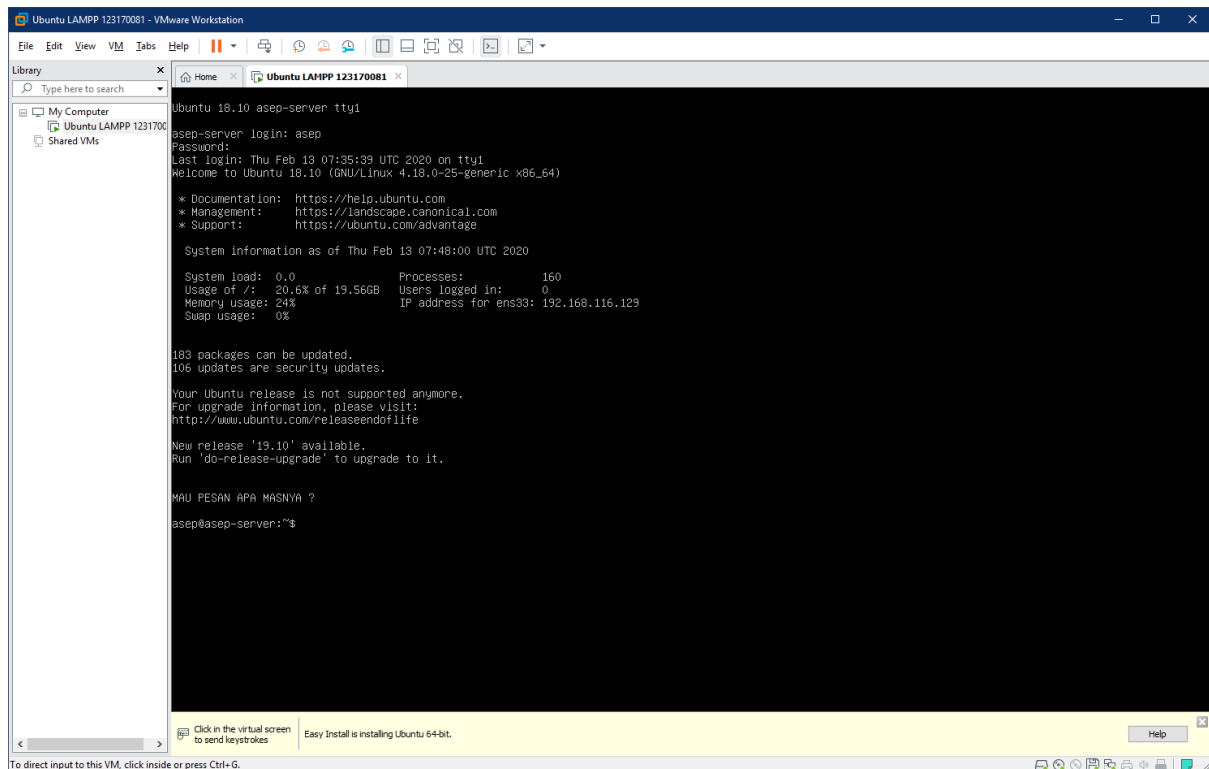
## 5. Memasukan pesan yang ingin ditampilkan



## 6. Lalu exit 2 kali



7. Masuk lagi ke akun, dan akan muncul tampilan mau pesan apa masnya ?

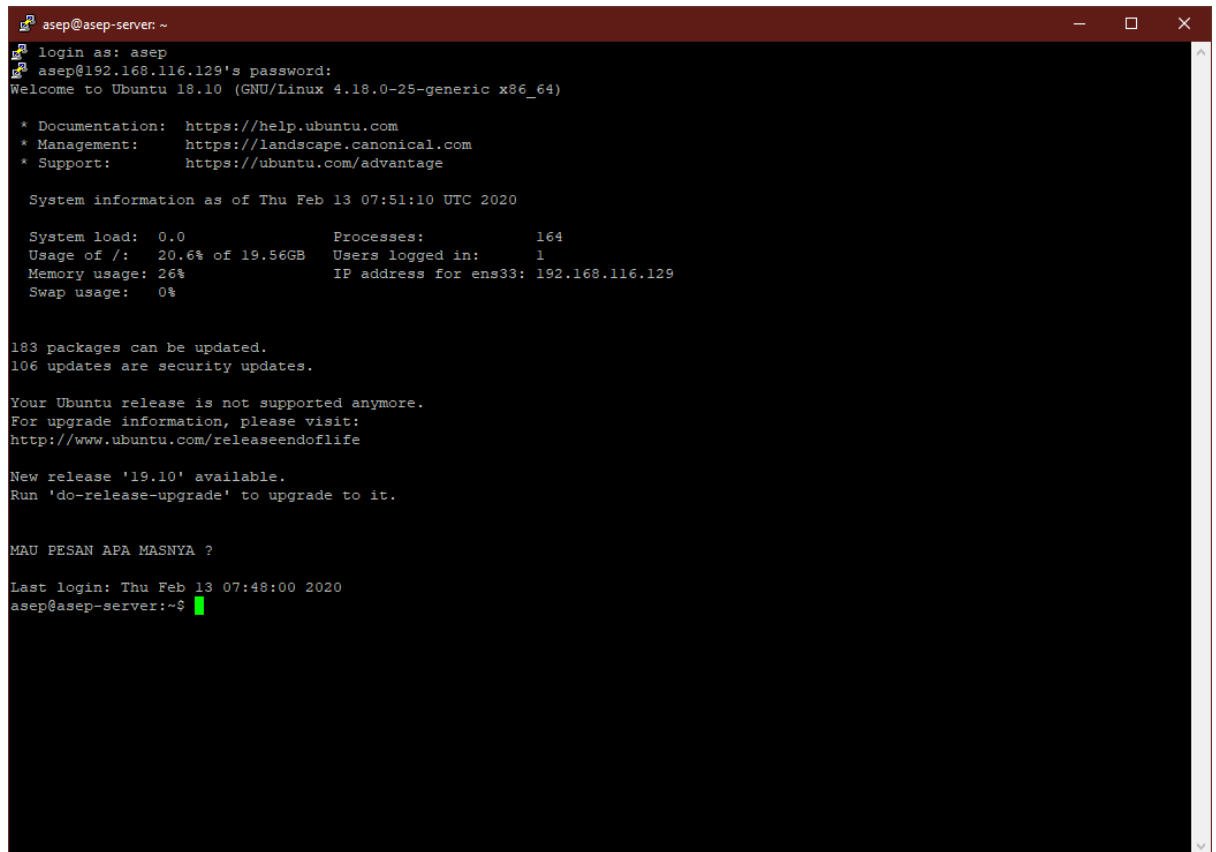


## Menggunakan aplikasi Putty

1. Buka aplikasi putty, masukan password dan email



## 2. Sudah masuk



```
asep@asep-server: ~  
login as: asep  
asep@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 Thu Feb 13 07:51:10 UTC 2020  
  
System load:  0.0               Processes:            164  
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.  
  
MAU PESAN APA MASNYA ?  
  
Last login: Thu Feb 13 07:48:00 2020  
asep@asep-server:~$
```

## Perintah di Ubuntu

1. Sudo
2. Sudo su
3. Cd
4. Mkdir
5. Ls
6. Cp
7. Mv
8. Rm
9. Nano : text editor
10. Apt
11. Cat : text editor
12. Chown : ganti kepemilikan
13. Chmod

## EVALUASI

1. Ls, tidak menampilkan apa-apa, karena ls digunakan untuk menampilkan direktori, sedangkan direktori belum dibuat

```
asep@asep-server: ~  
login as: asep  
asep@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 Thu Feb 13 07:51:10 UTC 2020  
  
System load:  0.0          Processes:      164  
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.  
  
MAU PESAN APA MASNYA ?  
  
Last login: Thu Feb 13 07:48:00 2020  
asep@asep-server:~$ ls  
asep@asep-server:~$
```

2. Mkdir pertemuan-2, tidak menampilkan apa-apa, tapi membuat direktori

```
asep@asep-server: ~  
login as: asep  
asep@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 Thu Feb 13 07:51:10 UTC 2020  
  
System load:  0.0          Processes:      164  
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.  
  
MAU PESAN APA MASNYA ?  
  
Last login: Thu Feb 13 07:48:00 2020  
asep@asep-server:~$ ls  
asep@asep-server:~$ mkdir pertemuan-2  
asep@asep-server:~$
```

### 3. Ls -l, menampilkan direktori, karena itu muncul pertemuan-2

```
asep@asep-server: ~  
login as: asep  
asep@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 Thu Feb 13 07:51:10 UTC 2020  
  
System load:  0.0          Processes:      164  
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.  
  
MAU PESAN APA MASNYA ?  
  
Last login: Thu Feb 13 07:48:00 2020  
asep@asep-server:~$ ls  
asep@asep-server:~$ mkdir pertemuan-2  
asep@asep-server:~$ ls -l  
total 4  
drwxrwxr-x 2 asep asep 4096 Feb 13 07:57 pertemuan-2  
asep@asep-server:~$
```

### 4. Cp -r pertemuan-2 pertemuan-1, tidak muncul apa-apa

```
asep@asep-server: ~  
login as: asep  
asep@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 Thu Feb 13 07:51:10 UTC 2020  
  
System load:  0.0          Processes:      164  
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.  
  
MAU PESAN APA MASNYA ?  
  
Last login: Thu Feb 13 07:48:00 2020  
asep@asep-server:~$ ls  
asep@asep-server:~$ mkdir pertemuan-2  
asep@asep-server:~$ ls -l  
total 4  
drwxrwxr-x 2 asep asep 4096 Feb 13 07:57 pertemuan-2  
asep@asep-server:~$ cp -r pertemuan-2 pertemuan-1  
asep@asep-server:~$
```



## 5. Ls, menampilkan direktori pertemuan-1 pertemuan-2

```
asep@asep-server: ~  
login as: asep  
asep@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 Thu Feb 13 07:51:10 UTC 2020  
  
System load:  0.0           Processes:      164  
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.  
  
MAU PESAN APA MASNYA ?  
  
Last login: Thu Feb 13 07:48:00 2020  
asep@asep-server:~$ ls  
asep@asep-server:~$ mkdir pertemuan-2  
asep@asep-server:~$ ls -l  
total 4  
drwxrwxr-x 2 asep asep 4096 Feb 13 07:57 pertemuan-2  
asep@asep-server:~$ cp -r pertemuan-2 pertemuan-1  
asep@asep-server:~$ ls  
pertemuan-1  pertemuan-2  
asep@asep-server:~$
```

## 6. Mv pertemuan-2 “pertemuan 2 LAMPP”, mengubah nama direktori dari pertemuan-2, menjadi direktori pertemuan 2 LAMPPA

```
asep@asep-server: ~  
login as: asep  
asep@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 Thu Feb 13 07:51:10 UTC 2020  
  
System load:  0.0           Processes:      164  
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.  
  
MAU PESAN APA MASNYA ?  
  
Last login: Thu Feb 13 07:48:00 2020  
asep@asep-server:~$ ls  
asep@asep-server:~$ mkdir pertemuan-2  
asep@asep-server:~$ ls -l  
total 4  
drwxrwxr-x 2 asep asep 4096 Feb 13 07:57 pertemuan-2  
asep@asep-server:~$ cp -r pertemuan-2 pertemuan-1  
asep@asep-server:~$ ls  
pertemuan-1  pertemuan-2  
asep@asep-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"  
asep@asep-server:~$
```

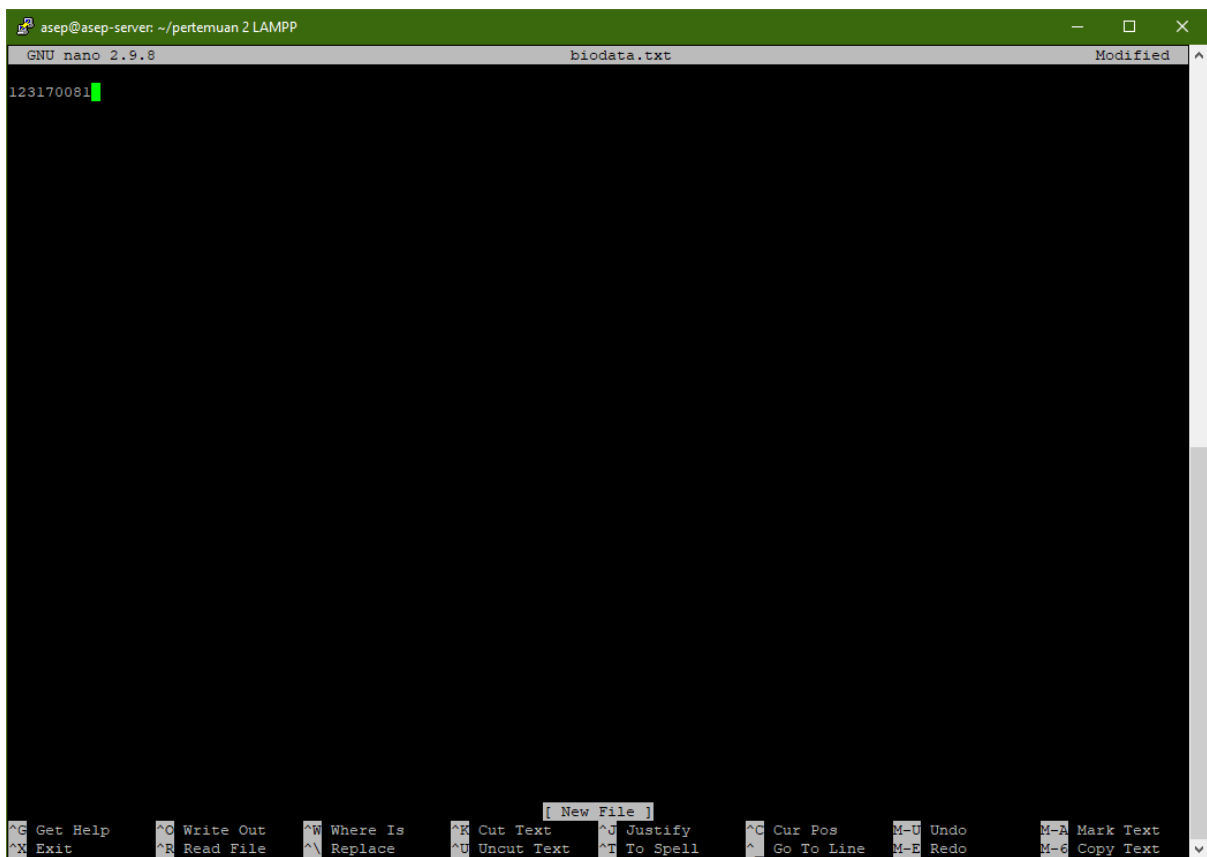
7. Ls, menampilkan direktori pertemuan-1 dan pertemuan 2 LAMPP yang telah diubah.

```
asep@asep-server: ~  
login as: asep  
asep@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 Thu Feb 13 07:51:10 UTC 2020  
  
System load:  0.0          Processes:      164  
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.  
  
MAU PESAN APA MASNYA ?  
  
Last login: Thu Feb 13 07:48:00 2020  
asep@asep-server:~$ ls  
asep@asep-server:~$ mkdir pertemuan-2  
asep@asep-server:~$ ls -l  
total 4  
drwxrwxr-x 2 asep asep 4096 Feb 13 07:57 pertemuan-2  
asep@asep-server:~$ cp -r pertemuan-2 pertemuan-1  
asep@asep-server:~$ ls  
pertemuan-1  pertemuan-2  
asep@asep-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"  
asep@asep-server:~$ ls  
pertemuan-1  'pertemuan 2 LAMPP'  
asep@asep-server:~$
```

8. Cd "pertemuan 2, membuka folder pertemuan-2

```
asep@asep-server: ~/pertemuan 2 LAMPP  
login as: asep  
asep@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 Thu Feb 13 07:51:10 UTC 2020  
  
System load:  0.0          Processes:      164  
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.  
  
MAU PESAN APA MASNYA ?  
  
Last login: Thu Feb 13 07:48:00 2020  
asep@asep-server:~$ ls  
asep@asep-server:~$ mkdir pertemuan-2  
asep@asep-server:~$ ls -l  
total 4  
drwxrwxr-x 2 asep asep 4096 Feb 13 07:57 pertemuan-2  
asep@asep-server:~$ cp -r pertemuan-2 pertemuan-1  
asep@asep-server:~$ ls  
pertemuan-1  pertemuan-2  
asep@asep-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"  
asep@asep-server:~$ ls  
pertemuan-1  'pertemuan 2 LAMPP'  
asep@asep-server:~$ cd "pertemuan 2 LAMPP"/  
asep@asep-server:~/pertemuan 2 LAMPP$
```

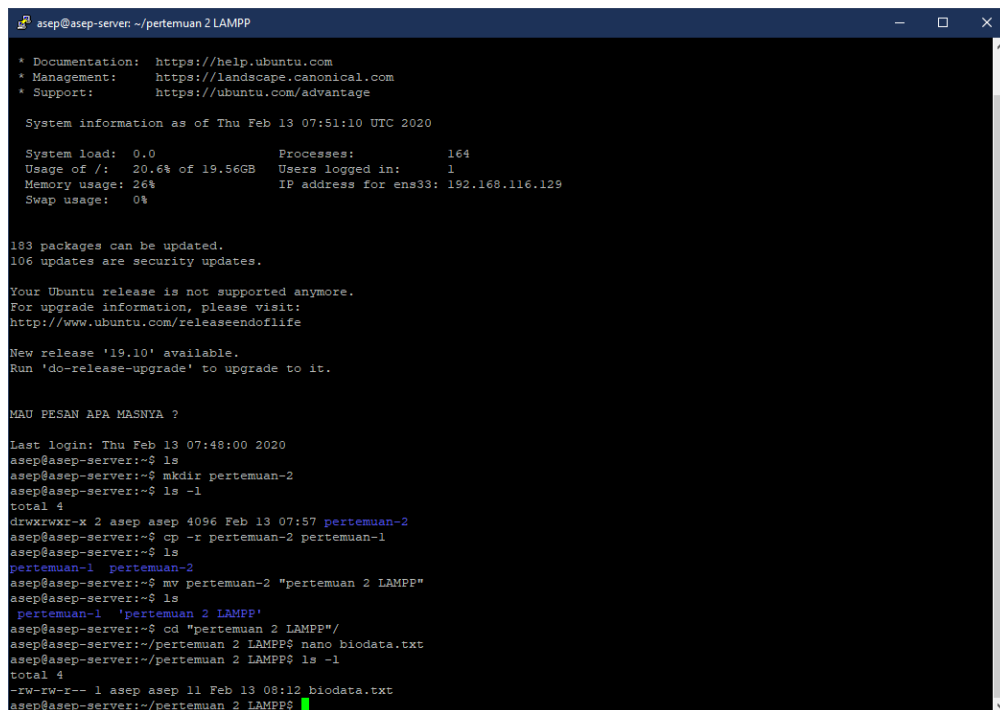
## 9. Nano biodata.txt , menyimpan data didalam folder pertemuan 2 LAMPP



```
asep@asep-server: ~/pertemuan 2 LAMPP
GNU nano 2.9.8 biodata.txt Modified
123170081

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

## 10.Ls -l



```
asep@asep-server: ~/pertemuan 2 LAMPP
* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage

System information as of Thu Feb 13 07:51:10 UTC 2020

System load:  0.0           Processes:      164
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/releases/20.04/

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

MAU PESAN APA MASNYA ?

Last login: Thu Feb 13 07:48:00 2020
asep@asep-server:~$ ls
asep@asep-server:~$ mkdir pertemuan-2
asep@asep-server:~$ ls -l
total 4
drwxrwxr-x 2 asep asep 4096 Feb 13 07:57 pertemuan-2
asep@asep-server:~$ cp -r pertemuan-2 pertemuan-1
asep@asep-server:~$ ls
pertemuan-1  pertemuan-2
asep@asep-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
asep@asep-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
asep@asep-server:~$ cd "pertemuan 2 LAMPP"/
asep@asep-server:~/pertemuan 2 LAMPP$ nano biodata.txt
asep@asep-server:~/pertemuan 2 LAMPP$ ls -l
total 4
-rw-rw-r-- 1 asep asep 11 Feb 13 08:12 biodata.txt
asep@asep-server:~/pertemuan 2 LAMPP$
```

## 11. Cat biodata.txt, menampilkan biodata yang ada didalam folder pertemuan 2 LAMPP.

```
asep@asep-server: ~/pertemuan 2 LAMPP
* Support:      https://ubuntu.com/advantage

System information as of Thu Feb 13 07:51:10 UTC 2020

System load:  0.0          Processes:      164
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.

MAU PESAN APA MASNYA ?

Last login: Thu Feb 13 07:48:00 2020
asep@asep-server:~$ ls
asep@asep-server:~$ mkdir pertemuan-2
asep@asep-server:~$ ls -l
total 4
drwxrwxr-x 2 asep asep 4096 Feb 13 07:57 pertemuan-2
asep@asep-server:~$ cp -r pertemuan-2 pertemuan-1
asep@asep-server:~$ ls
pertemuan-1  pertemuan-2
asep@asep-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
asep@asep-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
asep@asep-server:~$ cd "pertemuan 2 LAMPP"/
asep@asep-server:~/pertemuan 2 LAMPP$ nano biodata.txt
asep@asep-server:~/pertemuan 2 LAMPP$ ls -l
total 4
-rw-rw-r-- 1 asep asep 11 Feb 13 08:12 biodata.txt
asep@asep-server:~/pertemuan 2 LAMPP$ cat biodata.txt
123170081
asep@asep-server:~/pertemuan 2 LAMPP$
```

## 12. Nano biodata.txt, menambahkan data dalam folder pertemuan 2 LAMPP.

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

1231700813
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
█

^G Get Help      ^O Write Out    ^W Where Is     ^X Cut Text     ^J Justify      ^C Cur Pos      M-U Undo        M-A Mark Text
^X Exit          ^R Read File    ^N Replace      ^U Uncut Text   ^T To Spell     ^_ Go To Line    M-E Redo        M-G Copy Text
```

13. Cat biodata.txt, menampilkan file didalam folder biodata yang berada di direktori pertemuan 2 LAMPP.

```
asep@asep-server: ~/pertemuan 2 LAMPP
asep@asep-server:~$ mkdir pertemuan-2
asep@asep-server:~$ ls -l
total 4
drwxrwxr-x 2 asep asep 4096 Feb 13 07:57 pertemuan-2
asep@asep-server:~$ cp -r pertemuan-2 pertemuan-1
asep@asep-server:~$ ls
pertemuan-1  pertemuan-2
asep@asep-server:~$ mv pertemuan-2 "pertemuan 2 LAMPP"
asep@asep-server:~$ ls
pertemuan-1  'pertemuan 2 LAMPP'
asep@asep-server:~$ cd "pertemuan 2 LAMPP"/
asep@asep-server:~/pertemuan 2 LAMPP$ nano biodata.txt
asep@asep-server:~/pertemuan 2 LAMPP$ ls -l
total 4
-rw-rw-r-- 1 asep asep 11 Feb 13 08:12 biodata.txt
asep@asep-server:~/pertemuan 2 LAMPP$ cat biodata.txt
123170081

asep@asep-server:~/pertemuan 2 LAMPP$ nano biodata.txt
asep@asep-server:~/pertemuan 2 LAMPP$ cat biodata.txt
1231700813
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
asep@asep-server:~/pertemuan 2 LAMPP$
```

14. Tail biodata.txt, hanya mengambil beberapa data dari bawah.

```
asep@asep-server: ~/pertemuan 2 LAMPP
asep@asep-server:~/pertemuan 2 LAMPP$ nano biodata.txt
asep@asep-server:~/pertemuan 2 LAMPP$ ls -l
total 4
-rw-rw-r-- 1 asep asep 11 Feb 13 08:12 biodata.txt
asep@asep-server:~/pertemuan 2 LAMPP$ cat biodata.txt
123170081

asep@asep-server:~/pertemuan 2 LAMPP$ nano biodata.txt
asep@asep-server:~/pertemuan 2 LAMPP$ cat biodata.txt
1231700813
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

asep@asep-server:~/pertemuan 2 LAMPP$ tail biodata.txt
13
14
15
16
17
18
19
20
asep@asep-server:~/pertemuan 2 LAMPP$
```