

PERTEMUAN 2 : PENGENALAN VMWARE WORKSTATION DAN OS LINUX

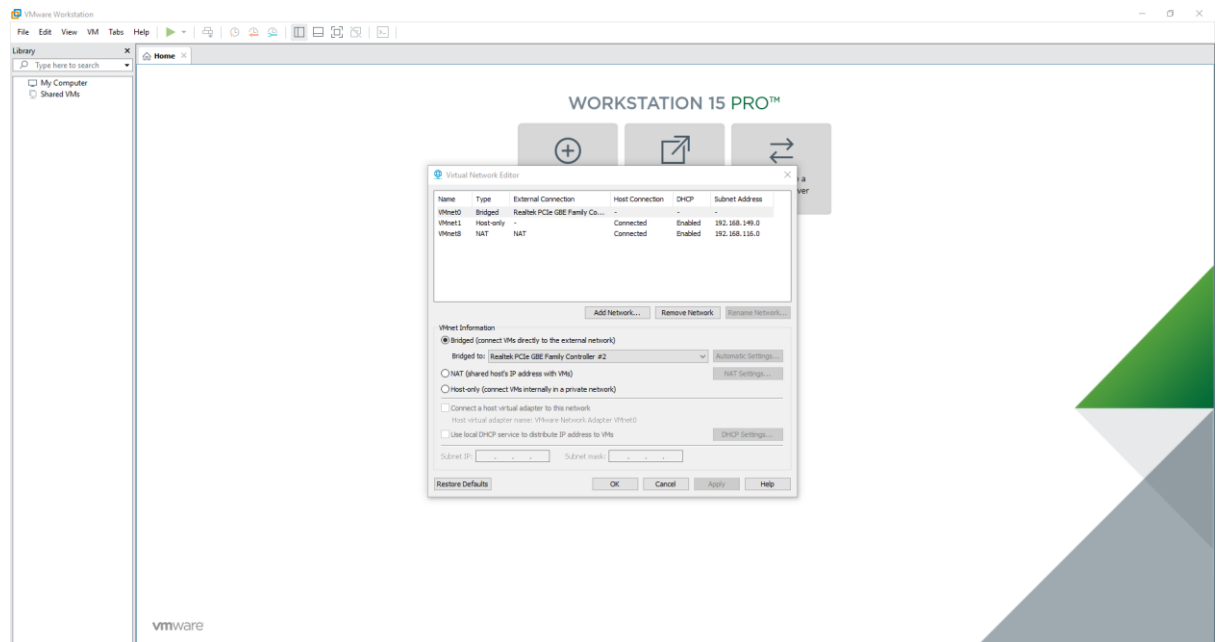
1. Review Materi pertemuan 1

Pretest :

- a. Hosting lokal tanpa cloud merupakan hosting dimana file yang dishare hanya bisa diakses menggunakan perangkat yang terkoneksi dengan internet/jaringan yang sama dengan perangkat file asal berada.
- b. Tahap-tahap untuk melakukan hosting Cloud dengan 000webhost :
 - Mendaftar akun di 000webhost setelah mendaftar akun, login
 - Siapkan file program web yang akan kita upload
 - Klik buat website dan masukkan nama website dan password
 - Klik menu file manager
 - Klik menu upload files
 - Pilih files web yang akan diupload(harus ada file indeks.php)
 - Upload files
- c. Ada beberapa vendor yang memberikan layanan hosting cloud gratis seperti 000webhost, yang biasanya mensyaratkan domain yang kita inginkan hanya menjadi subdomain dari domain vendor tersebut misalnya domain yang kita inginkan tcc123170092, setelah hosting di 000webhost, akan menjadi tcc123170092.000webhostapp.com dan biasanya hosting cloud gratis membatasi storage yang kita gunakan.
Selain hosting cloud gratis ada juga vendor yang menyediakan hosting cloud berbayar, misalnya niaga hoster, dengan menggunakan hosting cloud berbayar kita bebas untuk menentukan domain yang kita inginkan, untuk kapasitas storage tergantung kita memakai layanan yang mana, yang berapa harganya.

2. Pengenalan VMWare Workstation

- Virtualisasi sistem operasi, contoh : CPU, RAM, Network adapter dsb,
- Swap MENURUNKAN PERFORMA



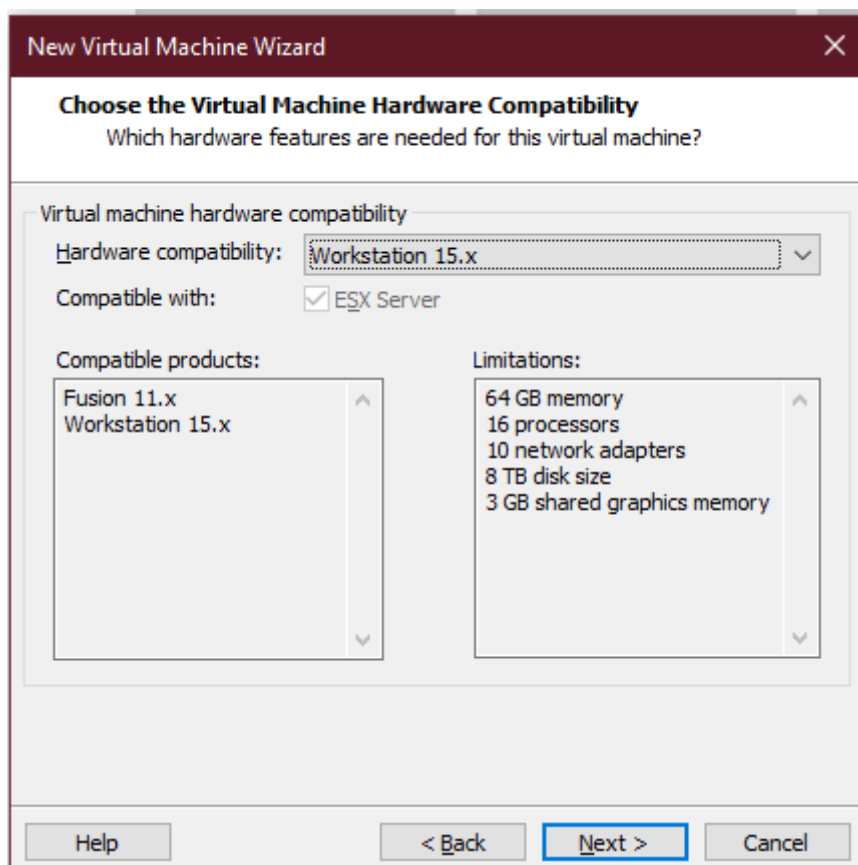
-
- Install virtual machine
Klik new virtual machine, maka akan muncul New Virtual Machine Wizard



Pilih custom



Klik next maka akan muncul



Untuk hw compatibility menyesuaikan dengan os

Klik next maka akan muncul

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 (E:)

☒ 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 installer disk image dan cari file iso os yang akan di instal
next

New Virtual Machine Wizard

Easy Install Information

This is used to install Ubuntu 64-bit.

Personalize Linux

Full name: 123170092

User name: umamu12

Password:

Confirm:

Help < Back Next > Cancel

Next

New Virtual Machine Wizard

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.

< Back Next > Cancel

Pilih folder untuk penyimpanan file vm nya, next

New Virtual Machine Wizard

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

Processors

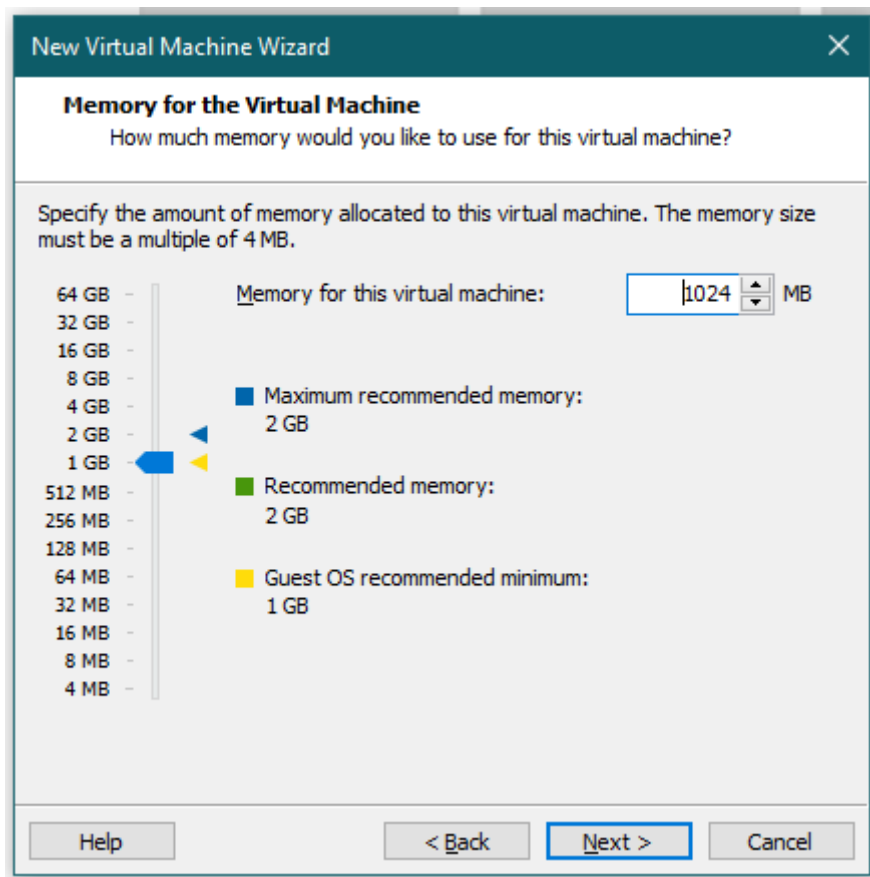
Number of processors: ▼

Number of cores per processor: ▼

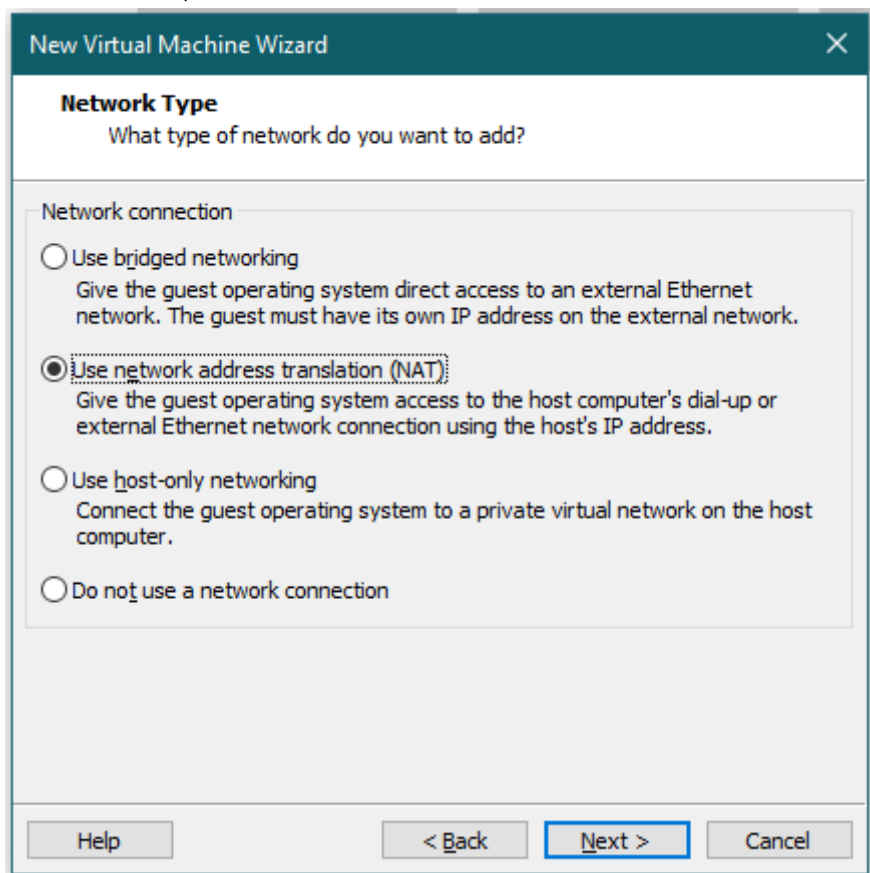
Total processor cores: 2

Help < Back **Next >** Cancel

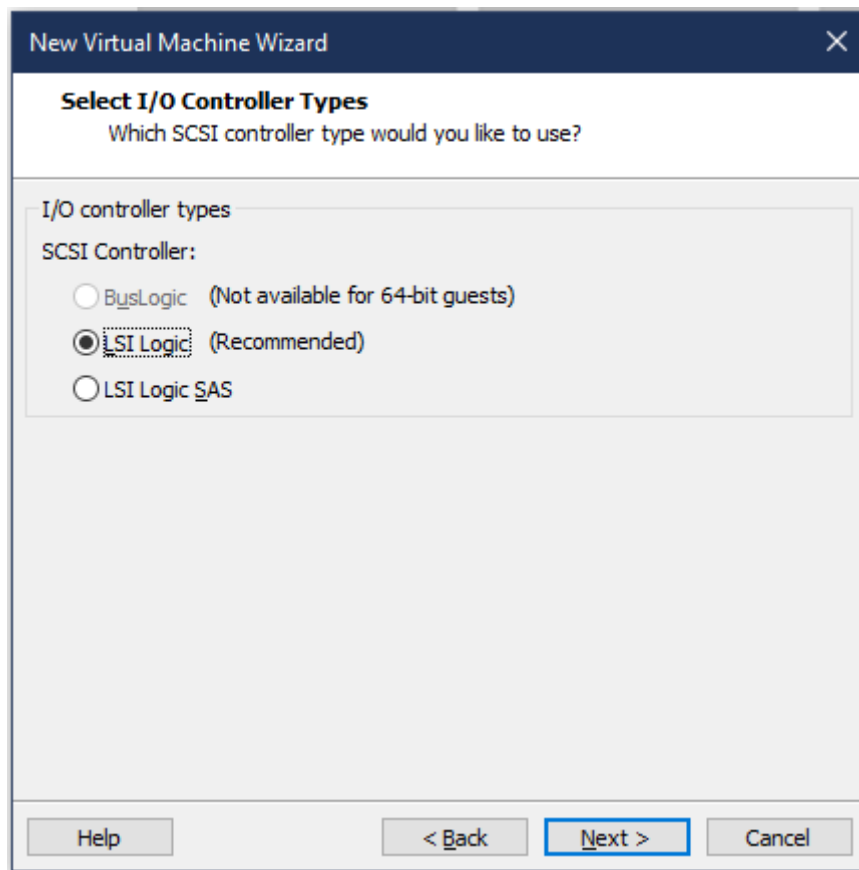
Untuk number of processornya pilih 2, dan core nya 1, next



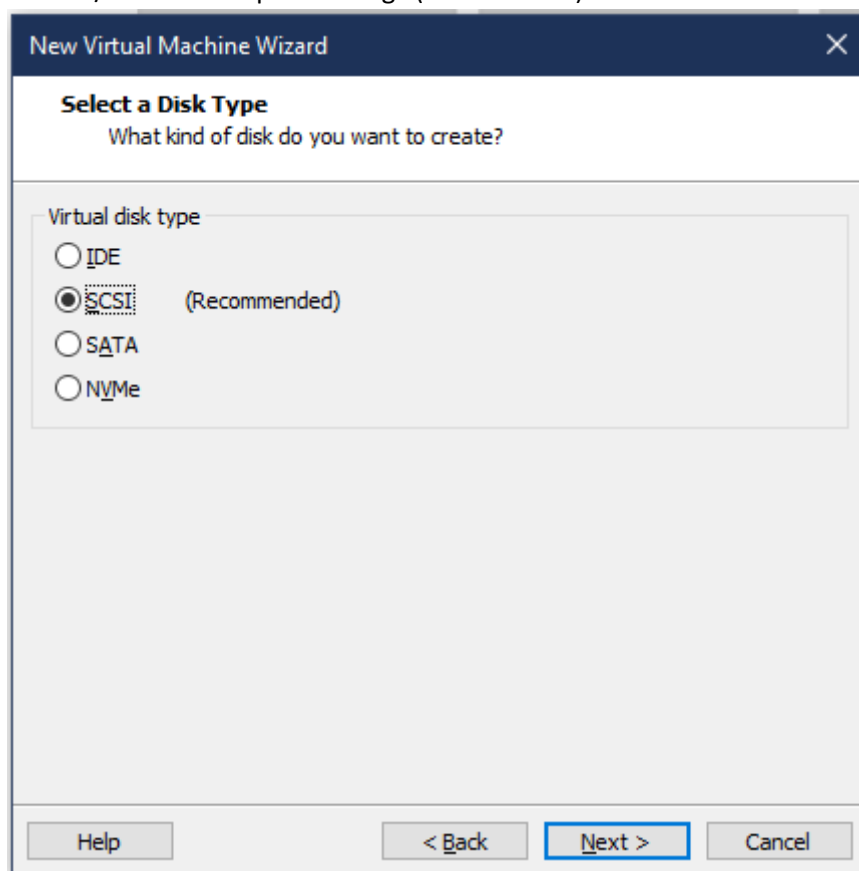
Pilih RAM 1 GB, next



Pilih NAT, next memberikan akses VM ke jaringan luar(samaseperti host)



Untuk I/O controller pilih LSI Logic(recomended)



Pilih SCSI untuk disk type, IDE untuk OS yang lama

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 virtual disk , karena baru pertama kali membuat, next

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

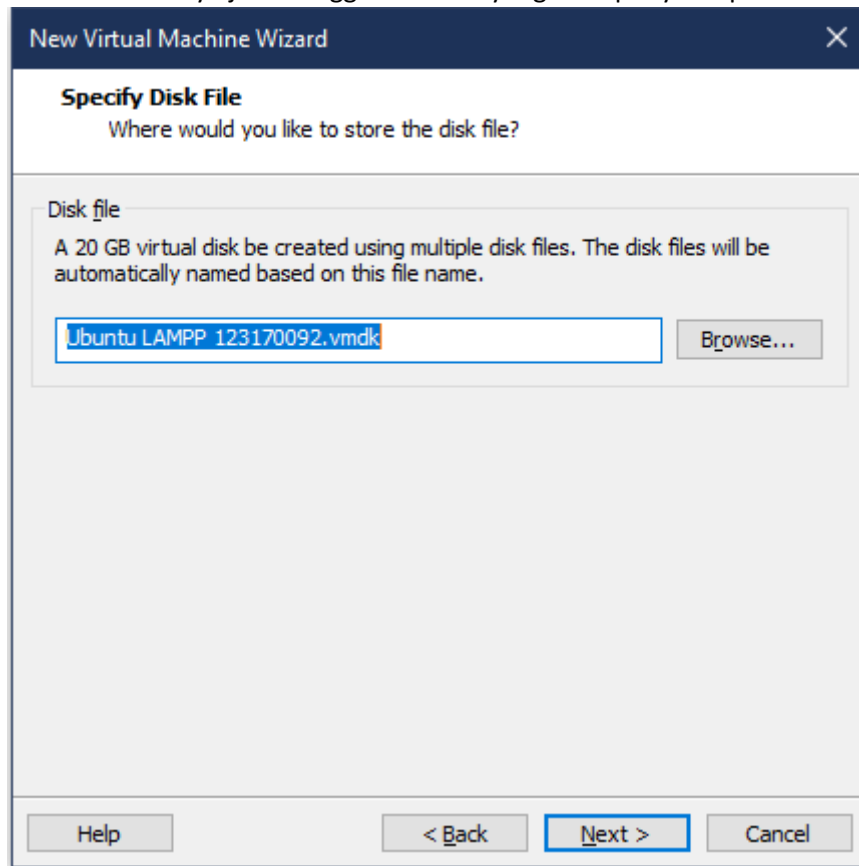
☐ Allocate all disk space now.
Allocating the full capacity can enhance performance but requires all of the physical disk space to be available right now. If you do not allocate all the space now, the virtual disk starts small and grows as you add data to it.

☐ 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 kapasitas 20 (default) dan pilih split virtual disk untuk memudahkan memindahkannya jika menggunakan FD yang mempunyai kapasitas sedikit



The image shows a screenshot of the 'New Virtual Machine Wizard' dialog box, specifically the 'Specify Disk File' step. The dialog has a title bar with 'New Virtual Machine Wizard' and a close button. Below the title bar, the section is titled 'Specify Disk File' with the question 'Where would you like to store the disk file?'. A 'Disk file' section contains a text box with the filename 'Ubuntu LAMPP 123170092.vmdk' and a 'Browse...' button. At the bottom of the dialog, there are four buttons: 'Help', '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

New Virtual Machine Wizard

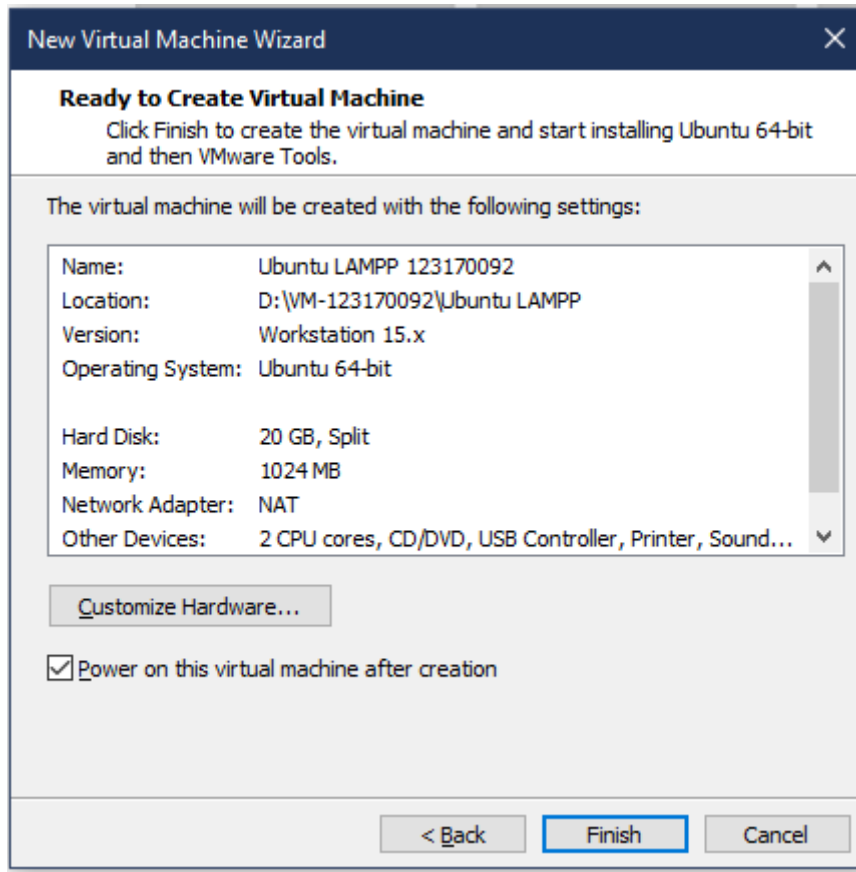
Specify Disk File
Where would you like to store the disk file?

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.

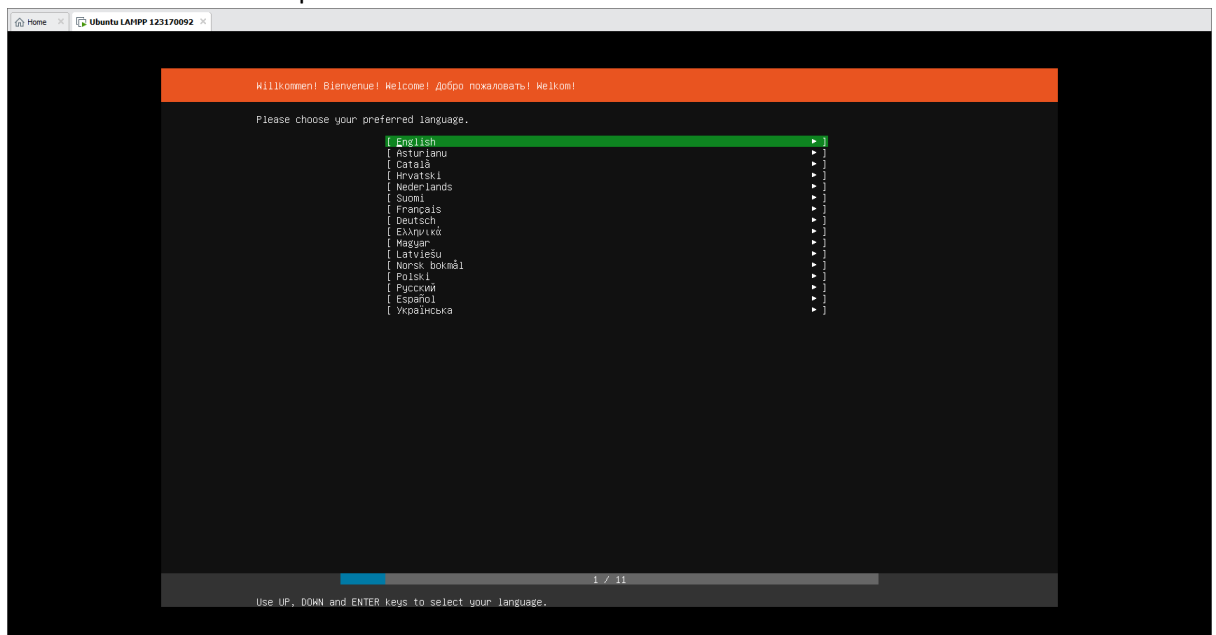
Ubuntu LAMPP 123170092.vmdk Browse...

Help < Back Next > Cancel

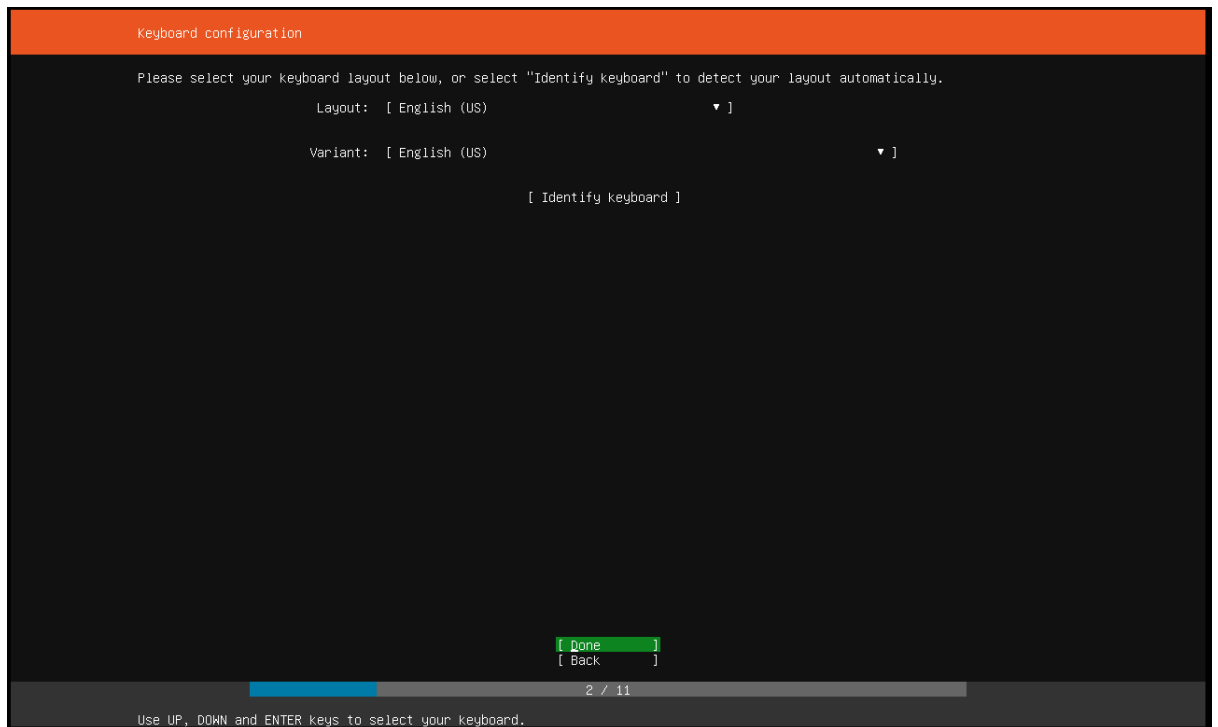
Next



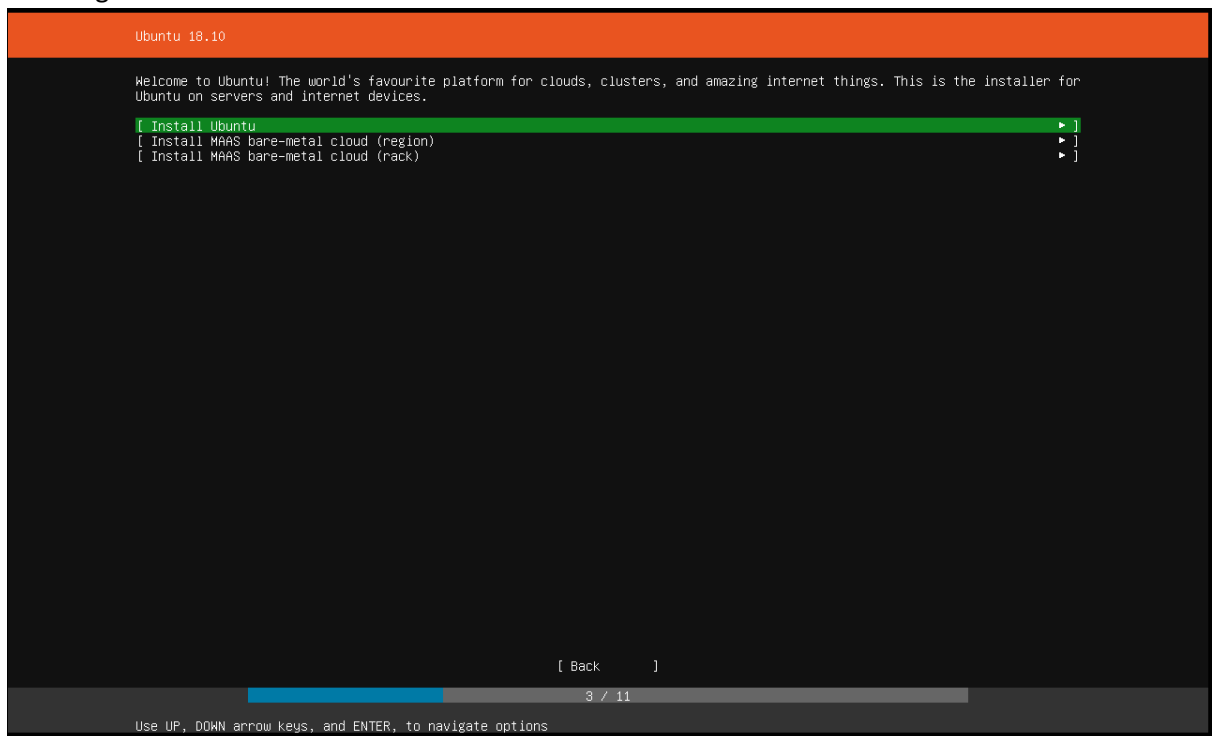
Untuk konfirmasi sudah pas belum



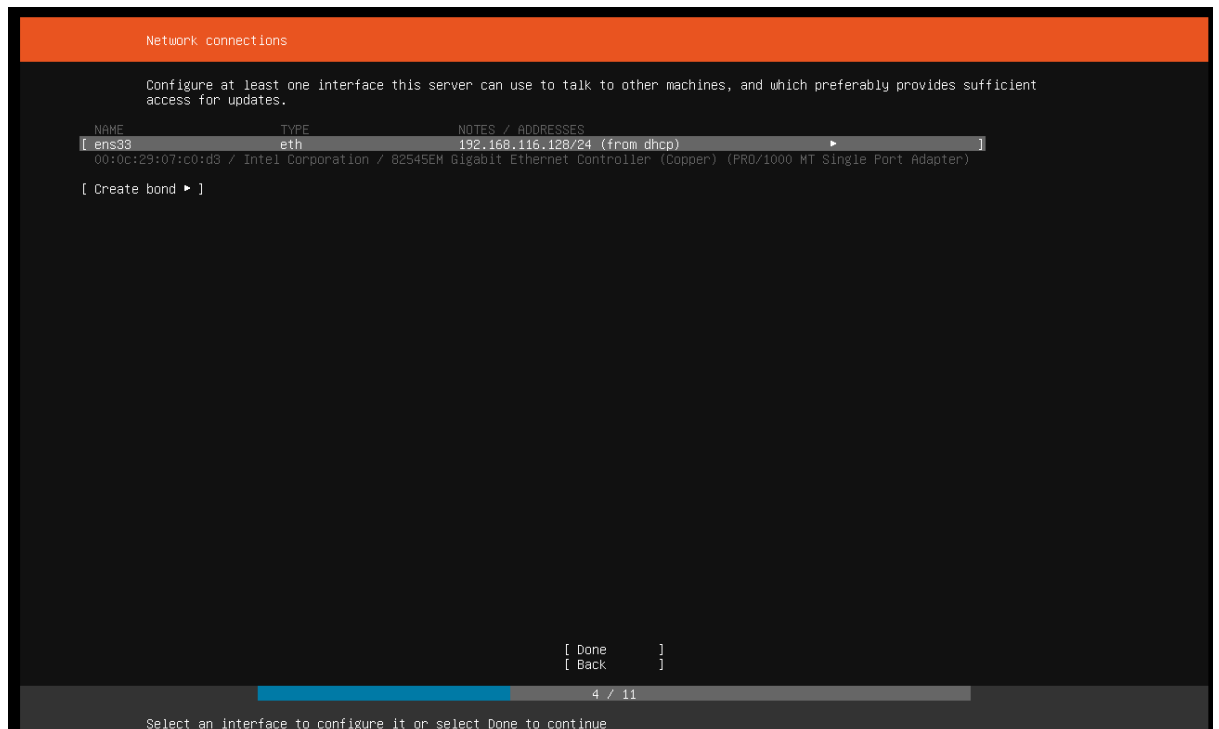
Untuk interaksi klik kanan mouse, untuk keluar kan pointer klikl ctrl + T, pilih english dan enter



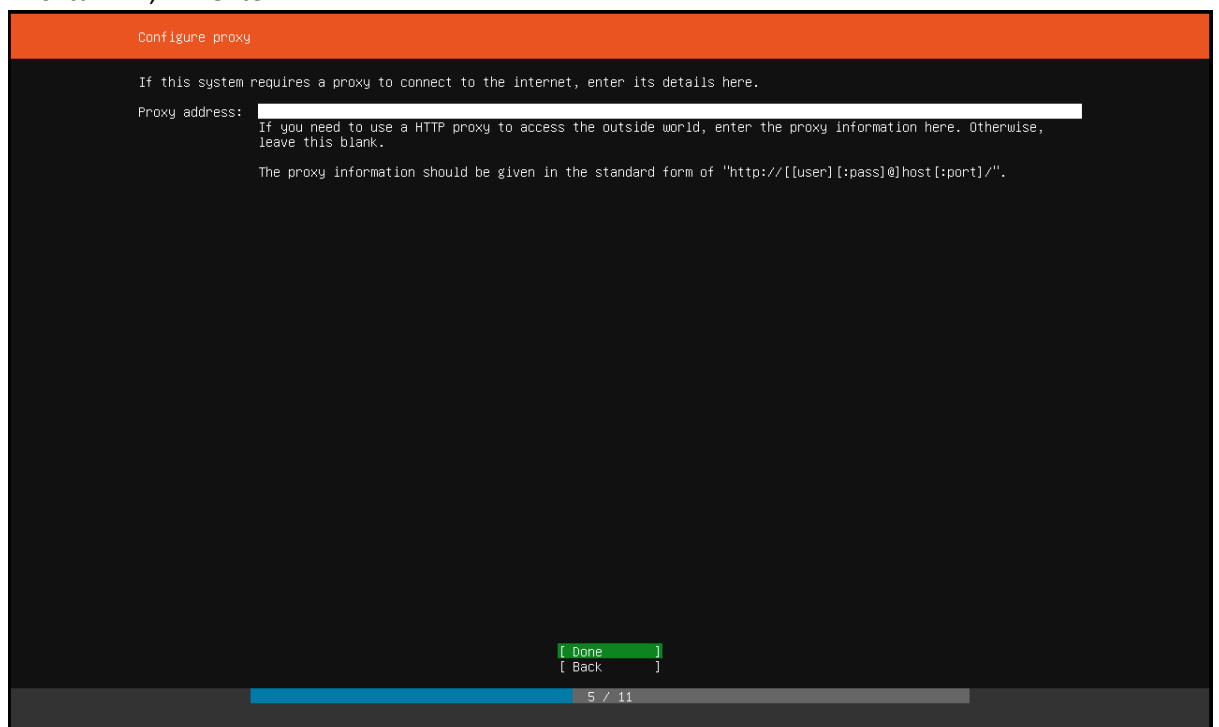
Pilih english us untuk default dan enter



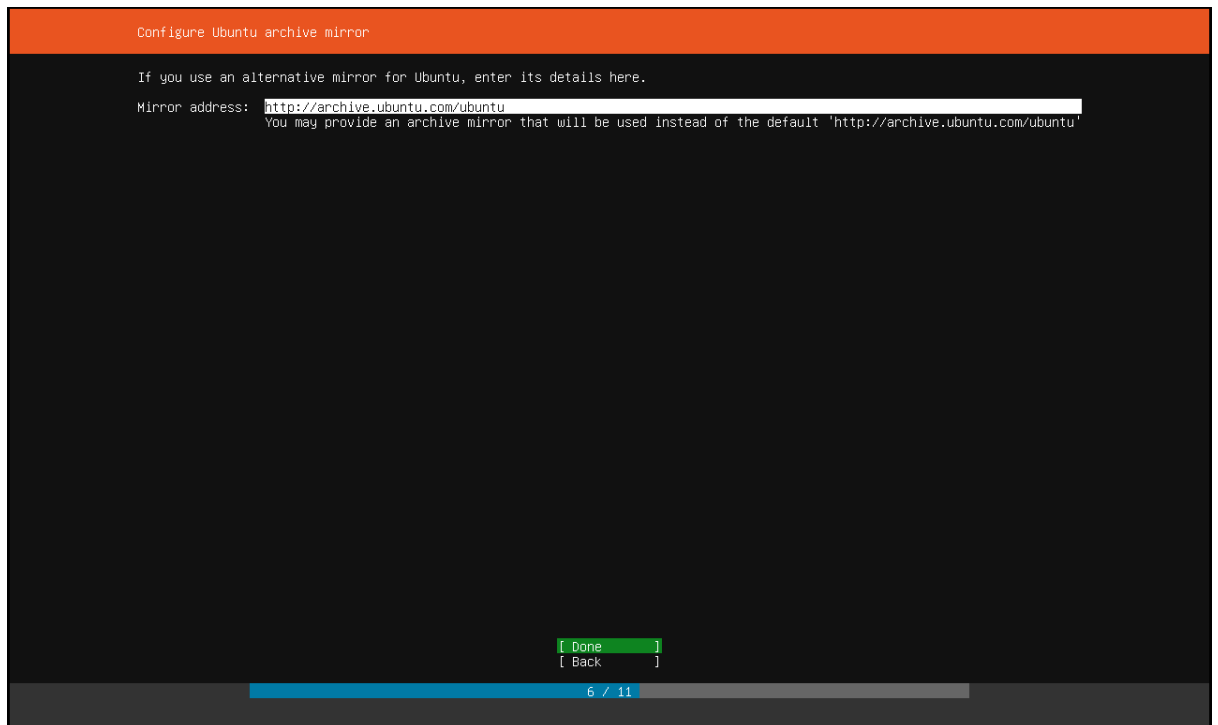
Pakai yang ubuntu, enter



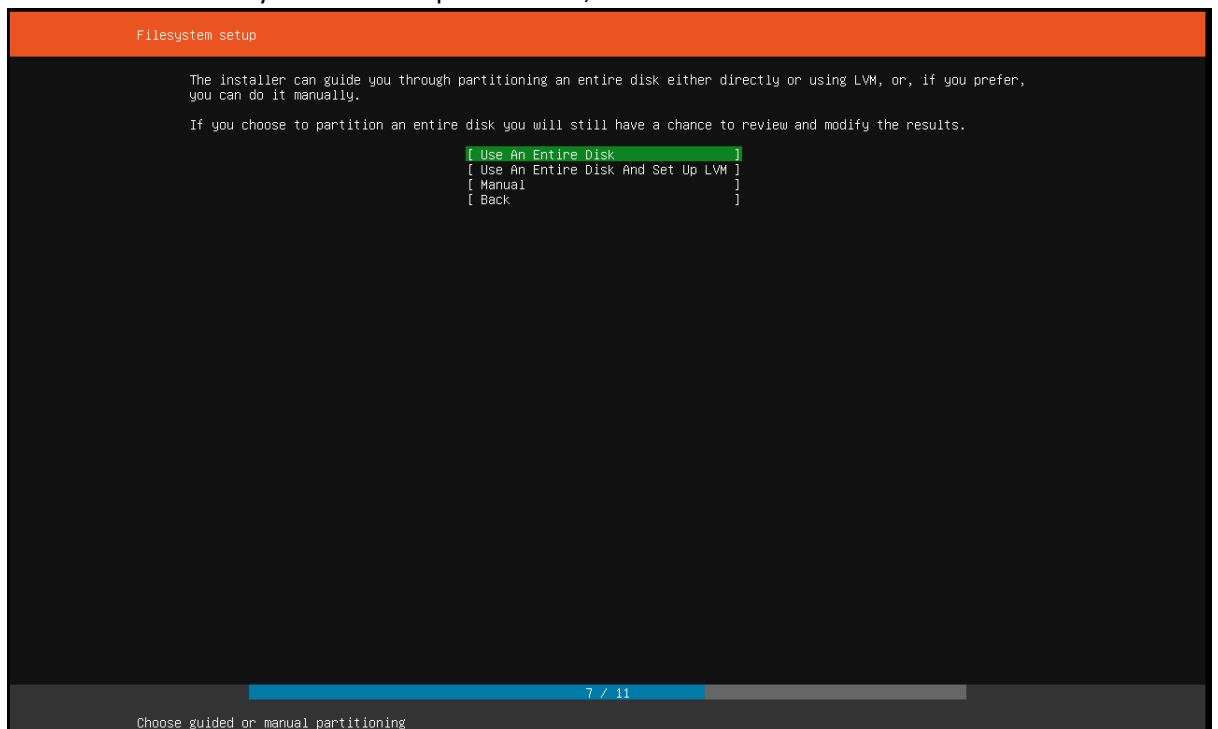
116 itu NAT, klik enter



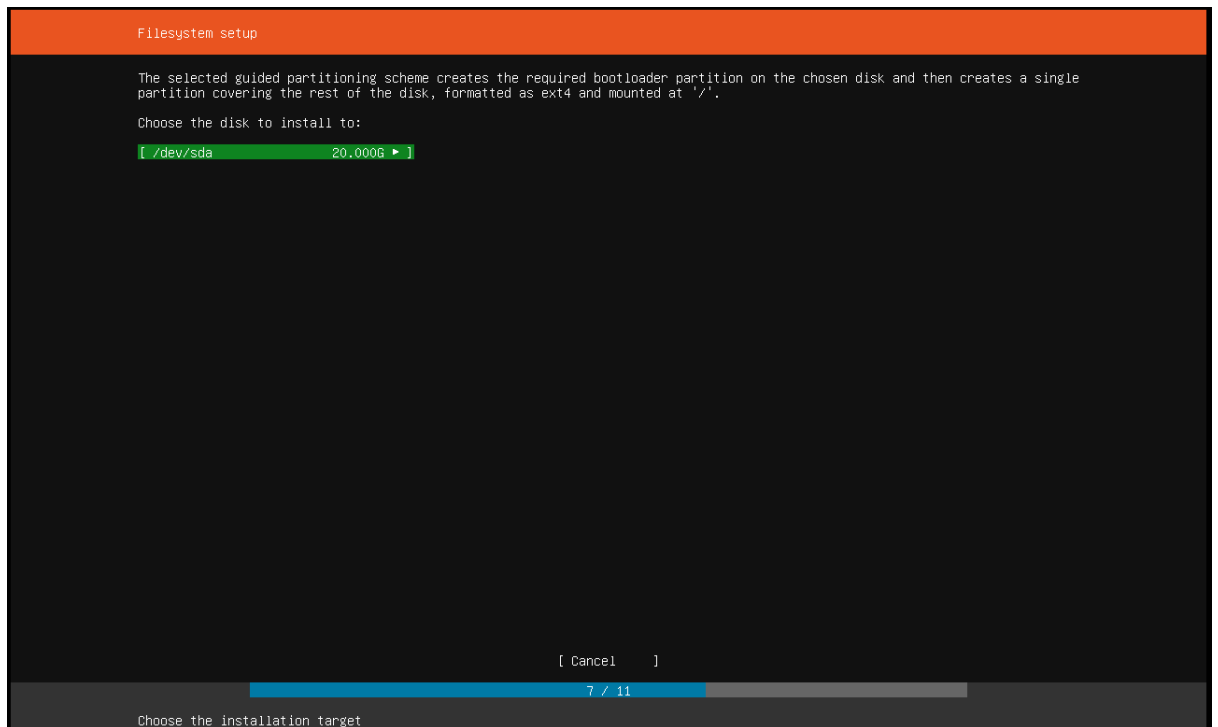
Kosongin karena tidak pakai proxy, klik enter



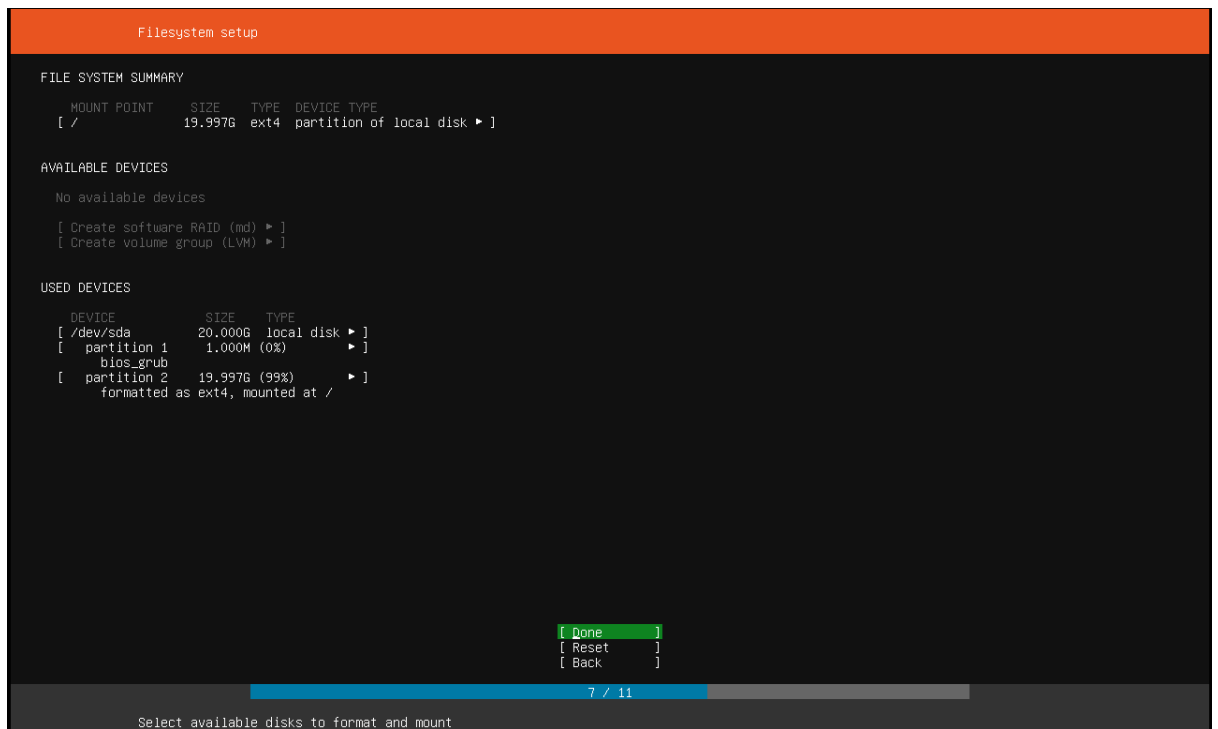
Penentuan achieve nya dibiarkan seperti default, klik enter



Untuk memakai semua 20 GB pilih , klik enter



Klik enter



Untuk konfirmasi, klik enter

Profile setup

Enter the username and password (or ssh identity) you will use to log in to the system.

Your name:

Your server's name:
The name it uses when it talks to other computers.

Pick a username:

Choose a password:

Confirm your password:

Import SSH identity: [No ▼]
You can import your SSH keys from Github or Launchpad.

Import Username:

[Done]

7 / 11

Install in progress: installing kernel

Username umam, password 123170092 klik next

Featured Server Snaps

These are popular snaps in server environments. Select or deselect with SPACE, press ENTER to see more details of the package, publisher and versions available.

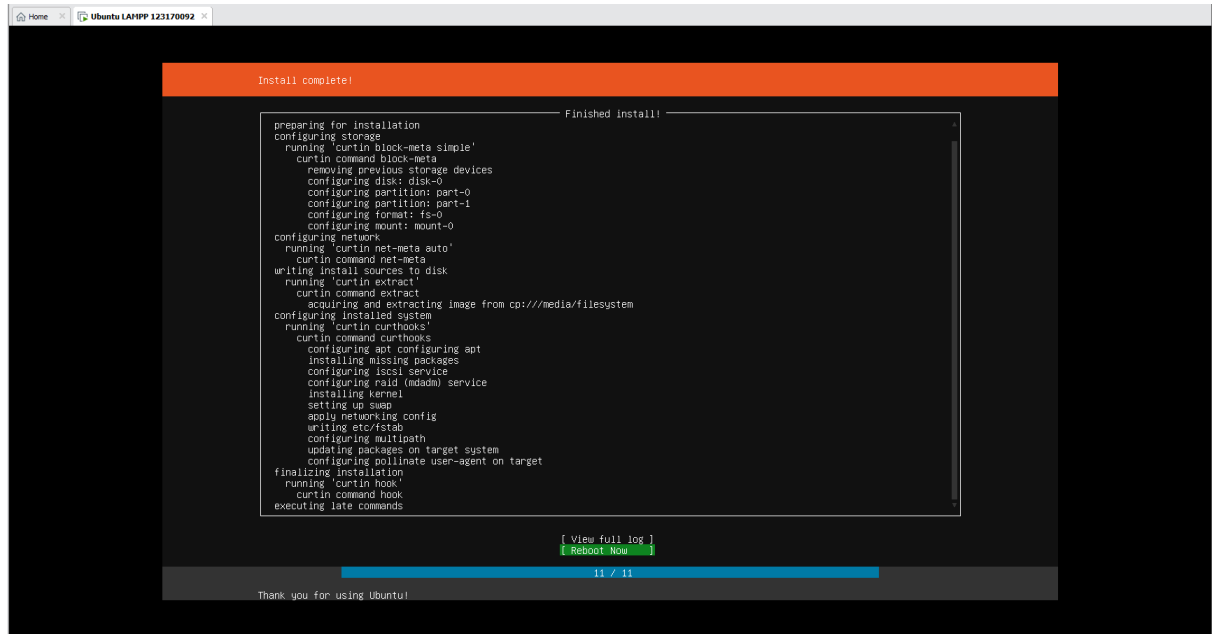
<input checked="" type="checkbox"/> microk8s	canonical	Kubernetes for workstations and appliances
<input type="checkbox"/> nextcloud	nextcloud	Nextcloud Server - A safe home for all your data
<input type="checkbox"/> wekan	xet7	Open-Source kanban
<input type="checkbox"/> kata-containers	katacontainers	Lightweight virtual machines that seamlessly plug into the containers ecosystem
<input type="checkbox"/> docker	canonical	Docker container runtime
<input type="checkbox"/> canonical-livepatch	canonical	Canonical Livepatch Client
<input type="checkbox"/> rocketchat-server	rocketchat	Group chat server for 100s, installed in seconds.
<input type="checkbox"/> mosquito	ralight	Eclipse Mosquitto MQTT broker
<input type="checkbox"/> etcd	canonical	Resilient key-value store by CoreOS
<input type="checkbox"/> powershell	microsoft-powershell	PowerShell for every system!
<input type="checkbox"/> stress-ng	cking-kernel-tools	A tool to load, stress test and benchmark a computer system
<input type="checkbox"/> sabnzbd	safihre	SABnzbd
<input type="checkbox"/> wormhole	snappy	get things from one computer to another, safely
<input type="checkbox"/> aws-cli	aws	Universal Command Line Interface for Amazon Web Services
<input type="checkbox"/> google-cloud-sdk	google-cloud-sdk	Command-line interface for Google Cloud Platform products and services
<input type="checkbox"/> slcli	softlayer	Python based SoftLayer API Tool.
<input type="checkbox"/> doctl	digitalocean	DigitalOcean command line tool
<input type="checkbox"/> conjure-up	canonical	Package runtime for conjure-up spells
<input type="checkbox"/> minidlna-escoand	escoand	server software with the aim of being fully compliant with DLNA/UPnP clients.
<input type="checkbox"/> postgresql10	cmd	PostgreSQL is a powerful, open source object-relational database system.
<input type="checkbox"/> heroku	heroku	CLI Client for Heroku
<input type="checkbox"/> keepalived	keepalived-project	High availability VRRP/BFD and load-balancing for Linux
<input type="checkbox"/> prometheus	canonical-is-snaps	The Prometheus monitoring system and time series database
<input type="checkbox"/> juju	canonical	Simple, secure and stable devops. Juju keeps complexity low and productivity high.

[Done]

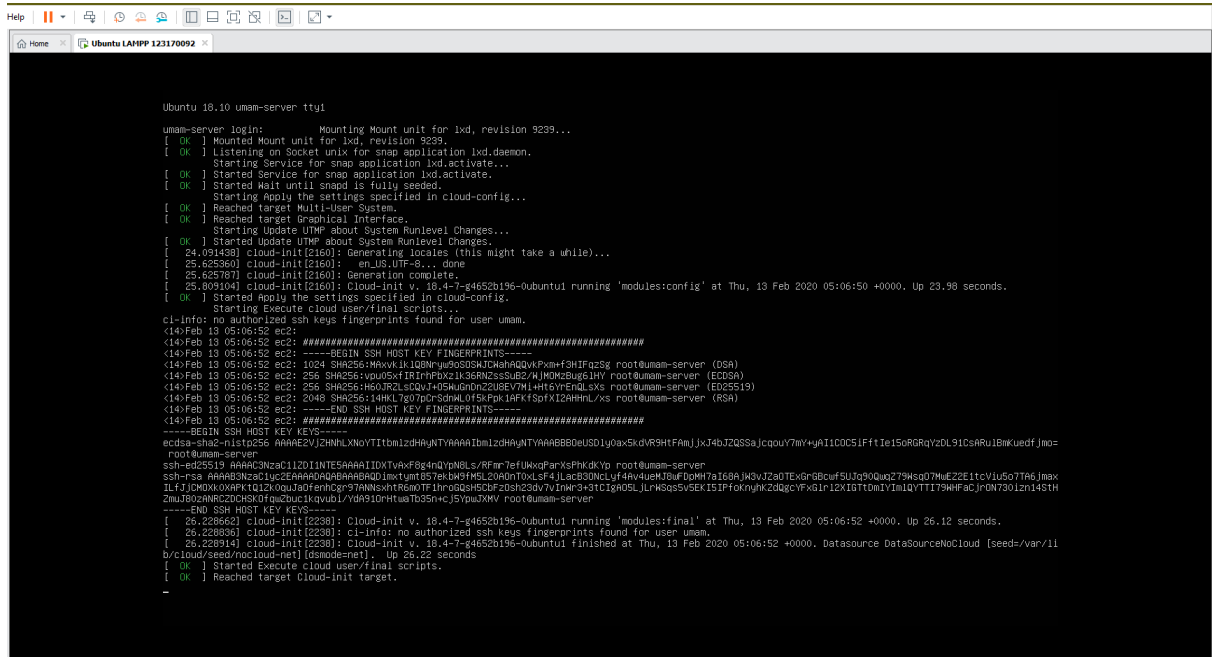
9 / 11

Install complete

Klik done, enter



Pilih reboot, klik enter



Jika stuck di reboot, klik icon pause dan klik reset


```
Ubuntu 18.10 umam-server tty1

umam-server login: umam
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 05:11:34 UTC 2020

System load: 0.0          Processes:              193
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.

umam@umam-server:~$ _
```

```
Ubuntu 18.10 umam-server tty1

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

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applicable law.

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

umam@umam-server:~$ _
```

Muncuk welcome message jika berhasil login,
Secara default, akun yang dibuat memiliki hak akses standar, tidak semua perintah dapat dilakukan
Perhatikan status user aktif pada baris terminal

umam@umam-server:~\$

untuk berpindah ke akun yang memiliki hak akses lengkap (root) ketikkan pada console
sudo su

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

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

masukkan password akun saat ini

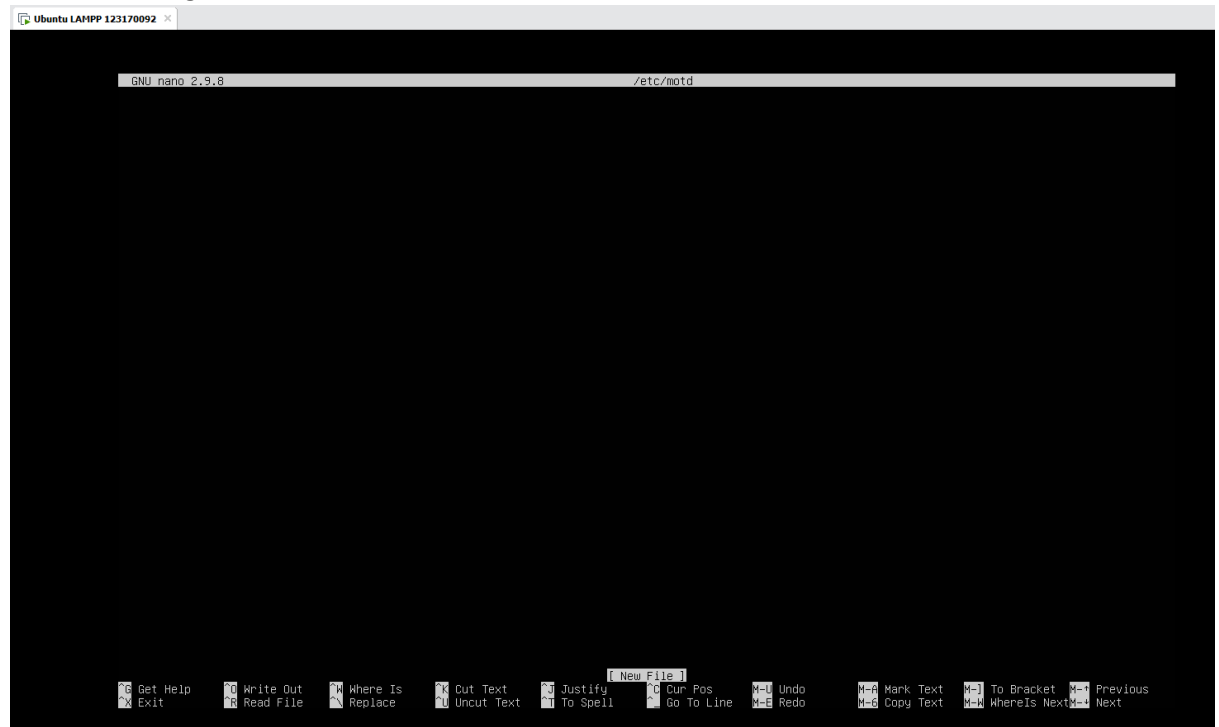
jika berhasil maka status user akan berubah menjadi root@umam-server:/home/umam#

ketik exit untuk kembali ke akun semula

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

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

Mencoba mengubah MOTD



Tampilan notepad pada ubuntu

Coba ketik apapun dan simpan menggunakan kombinasi ctrl + o setelah berhasil akan muncul wrote 1 line

```
GNU nano 2.9.8 /etc/motd
Hey... I'm Just triying to talk with you hooman..._

[ Wrote 1 line ]
Get Help  Write Out  Where Is  Cut Text  Justify  Cur Pos  Undo  Mark Text  To Bracket  Previous
Exit      Read File  Replace  Uncut Text  To Spell  Go To Line  Redo  Copy Text  WhereIs Next  Next
```

Klik ctrl + x untuk keluar dari nano text editor

```
Ubuntu 18.10 umam-server tty1

umam-server login: umam
Password:
Last login: Thu Feb 13 05:11:34 UTC 2020 on tty1
Welcome to Ubuntu 18.10 (GNU/Linux 4.18.0-25-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
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System information as of Thu Feb 13 05:27:40 UTC 2020

System load:  0.0               Processes:            161
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.

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.

Hey... I'm just triying to talk with you hooman...
umam@umam-server:~$
```

Ketik exit ,enter 2 kali untuk logout, setelah itu login lagi maka akan muncul hasil text editor tadi

```
Ubuntu 18.10 umam-server tty1

umam-server login: umam
Password:
Last login: Thu Feb 13 05:11:34 UTC 2020 on tty1
Welcome to Ubuntu 18.10 (GNU/Linux 4.18.0-25-generic x86_64)

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http://www.ubuntu.com/releaseendoflife

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

Hey... I'm just trying to talk with you hooman...
umam@umam-server:~$
```

Untuk mencari ip ketik ifconfig

```

Password:
Last login: Thu Feb 13 05:11:34 UTC 2020 on tty1
Welcome to Ubuntu 18.10 (GNU/Linux 4.18.0-25-generic x86_64)

 * Documentation:  https://help.ubuntu.com
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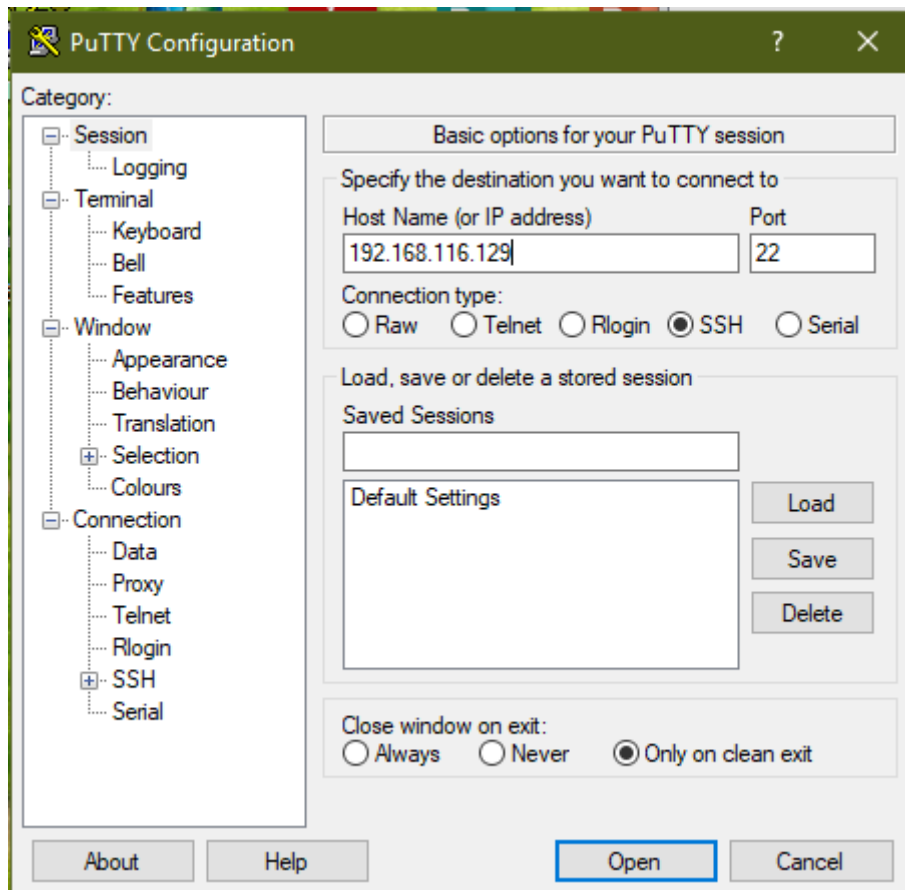
Hey... I'm just trying to talk with you hooman...
umam@umam-server:~$ ifconfig
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
    inet 192.168.116.129  netmask 255.255.255.0  broadcast 192.168.116.255
    inet6 fe80::20c:29ff:fe07:c0d3  prefixlen 64  scopeid 0x20<link>
    ether 00:0c:29:07:c0:d3  txqueuelen 1000  (Ethernet)
    RX packets 714  bytes 623788 (623.7 KB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 183  bytes 22145 (22.1 KB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
    inet 127.0.0.1  netmask 255.0.0.0
    inet6 ::1  prefixlen 128  scopeid 0x10<host>
    loop txqueuelen 1000  (Local Loopback)
    RX packets 208  bytes 16472 (16.4 KB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 208  bytes 16472 (16.4 KB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

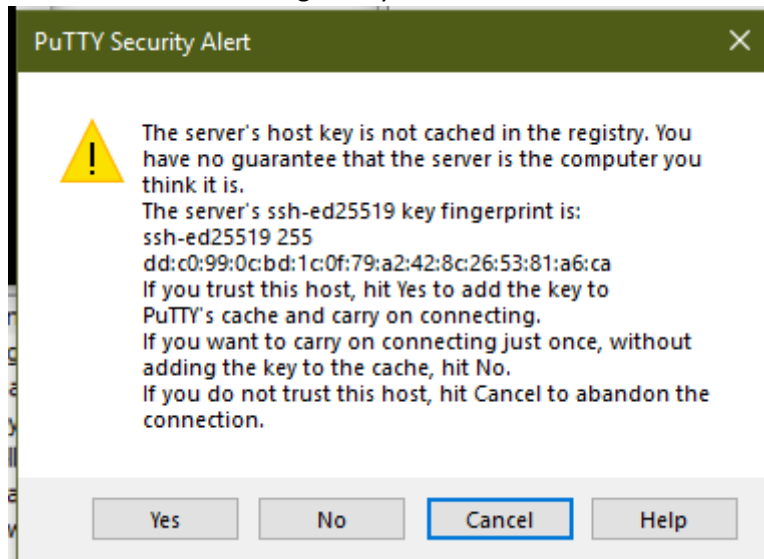
umam@umam-server:~$

```

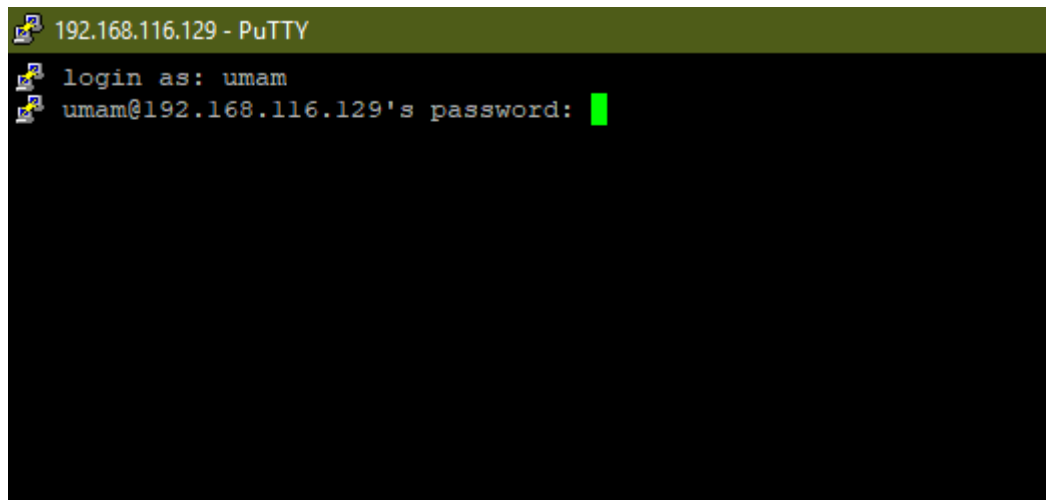
Buka putty dan masukkan ip ubuntu untuk menggunakan remote membuka ubuntu VMWare



Jika muncul error message klik yes



Klik yes



Putty dapat digunakan untuk membuka linux os, dengan syarat VMWare terbuka

- asd
3. Linux OS (Ubuntu)

4. f