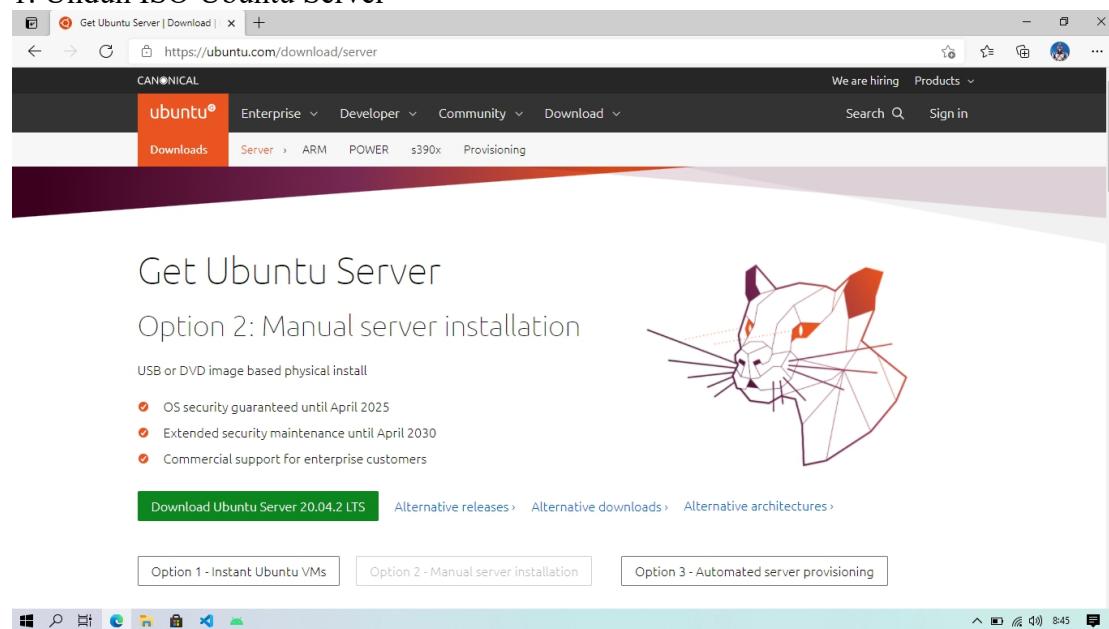


Nama : Ferza Reyaldi
NIM : 09021281924060
Kelas : 4 REG A

MEMBANGUN WEB SERVER MENGGUNAKAN UBUNTU SERVER

Membuat Virtual Box Ubuntu Server

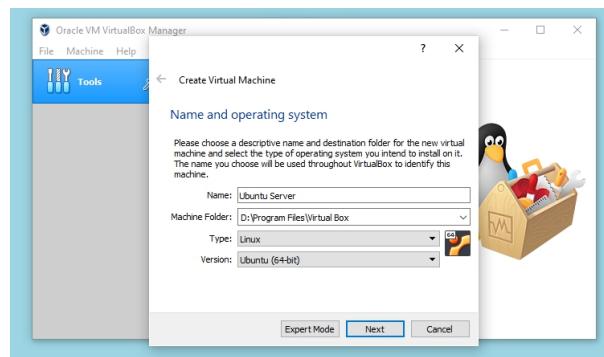
1. Unduh ISO Ubuntu Server



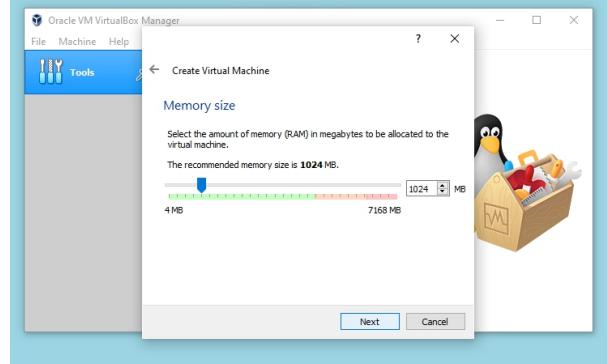
2. Tekan New untuk membuat VM baru.



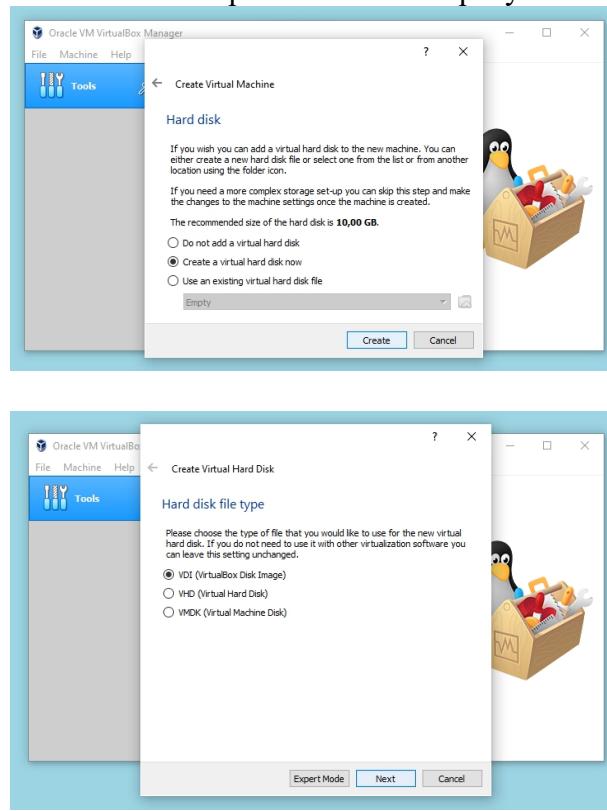
3. Buat nama dan atur direktori dari VM yang dibuat. Disini saya menggunakan nama Ubuntu Server.



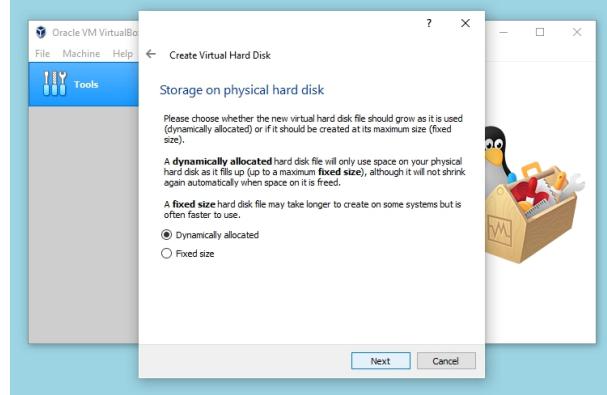
4. Atur ukuran memori RAM. Disini saya mengaturnya menjadi 1 GB (1024 MB).



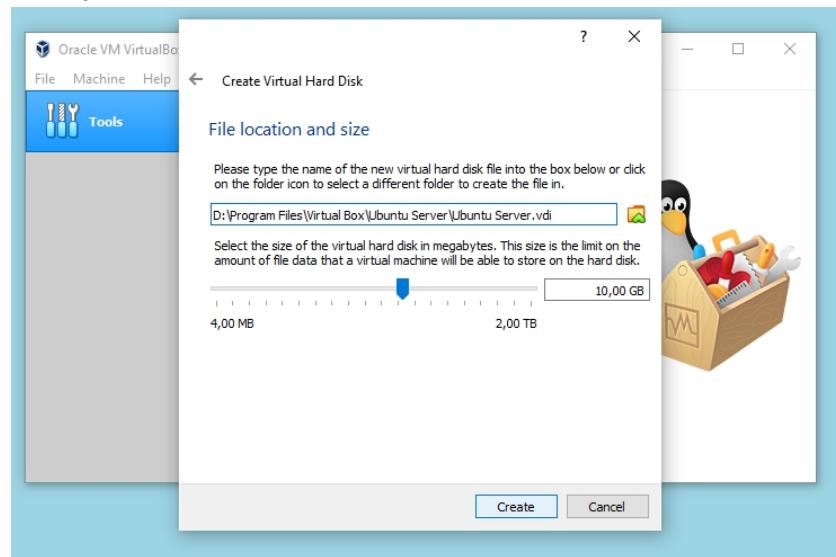
5. Buat virtual hard disk. Kemudian pilih VDI untuk tipenya.



6. Pilih *dynamically allocated* untuk cara pengalokasian penyimpanan hard disk.



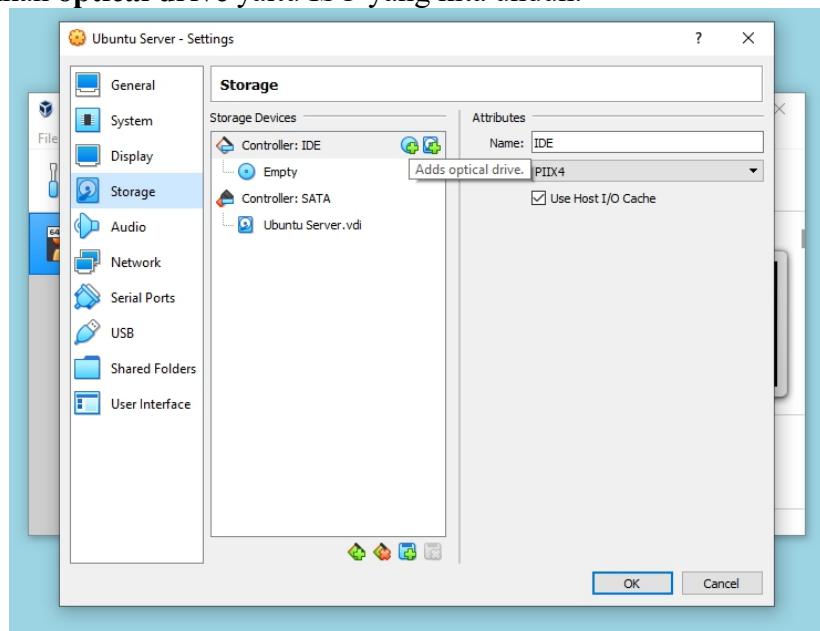
7. Atur lokasi penyimpanan hard disk dan ukuran yang dialokasikan. Disini saya menggunakan 10 GB.



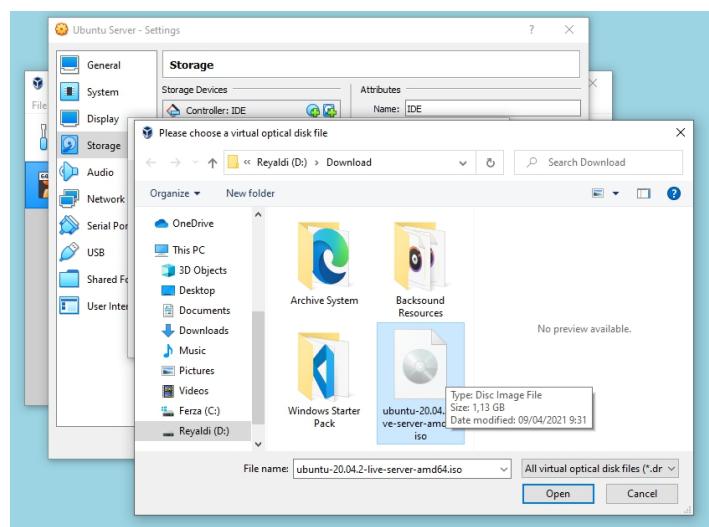
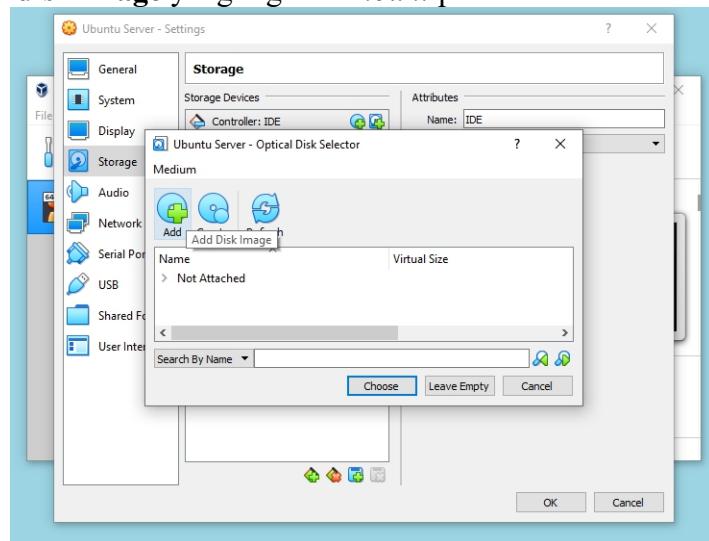
8. Tekan *setting* untuk mengatur VM yang dibuat.



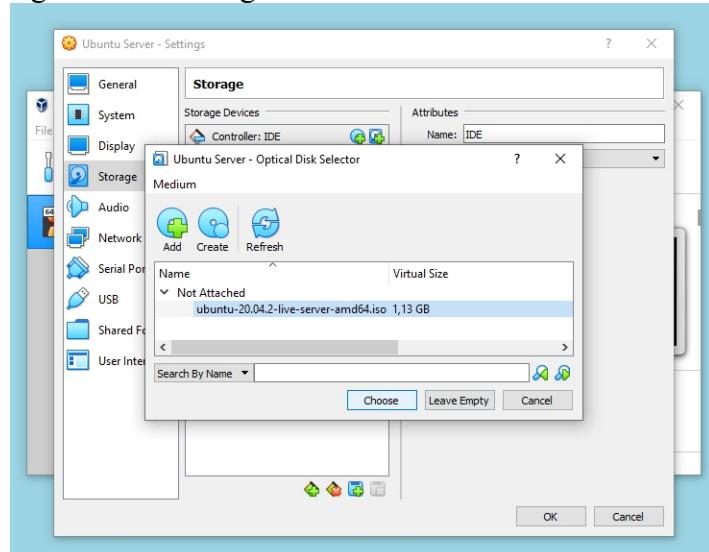
9. Tambahkan **optical drive** yaitu ISO yang kita unduh.



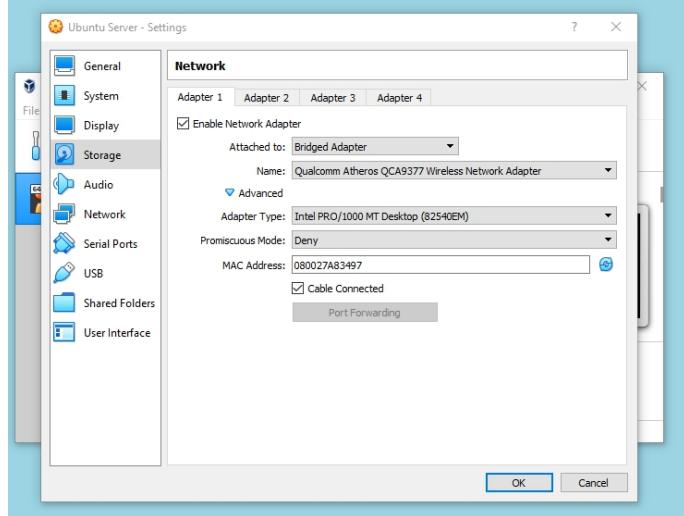
10. Tambahkan disk image yang ingin di-mount pada VM.



11. Pilih ISO yang diunduh di langkah 1.



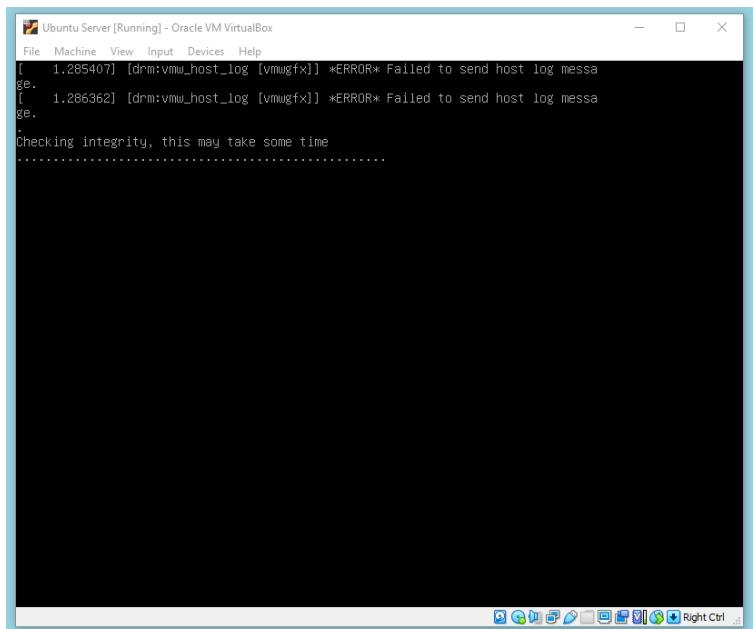
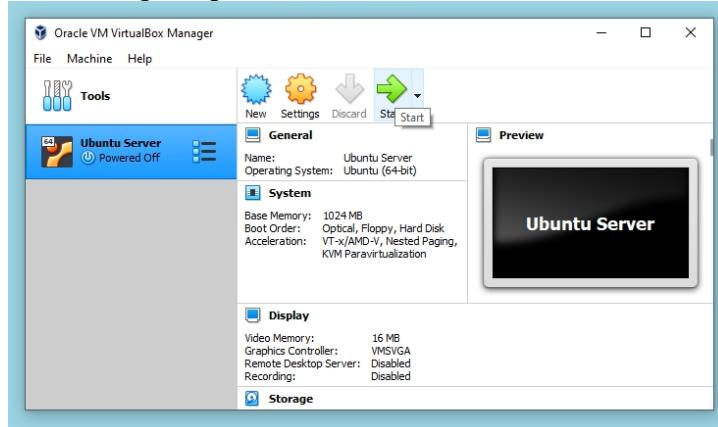
12. Pilih menu Network, atur *attached to* menjadi **Bridged Adapter**.



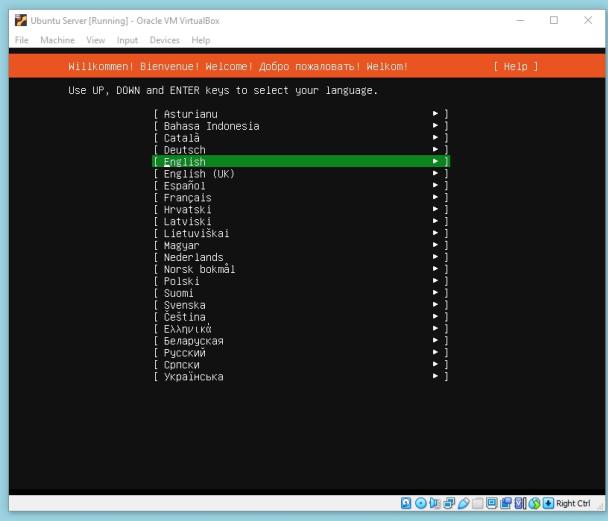
13. VM selesai diatur.

Instal Ubuntu Server

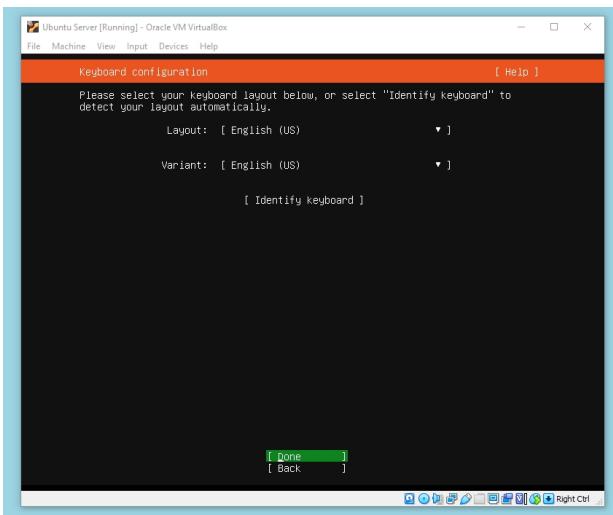
1. Tekan *start* untuk menghidupkan VM.



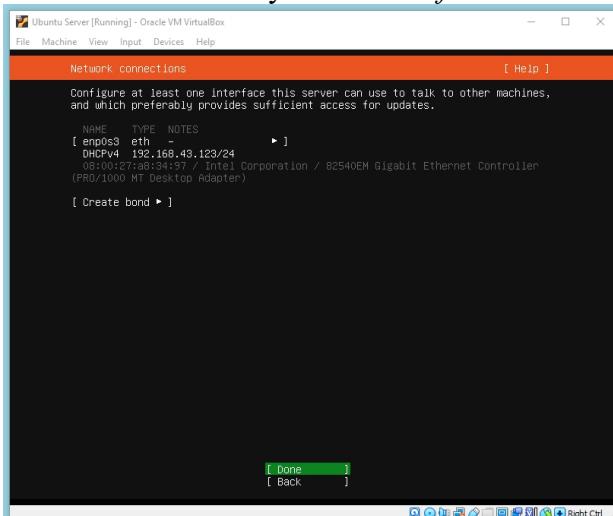
2. Pilih bahasa yang ingin digunakan.



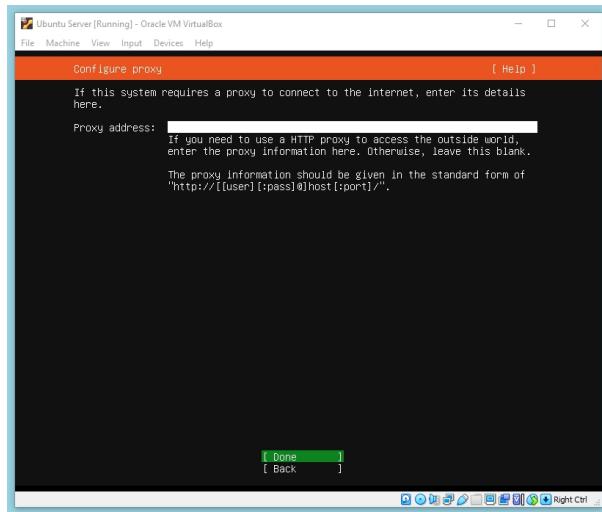
3. Untuk **keyboard configuration**, atur bahasa untuk *layout* dan *variant*. Kemudian tekan *done*.



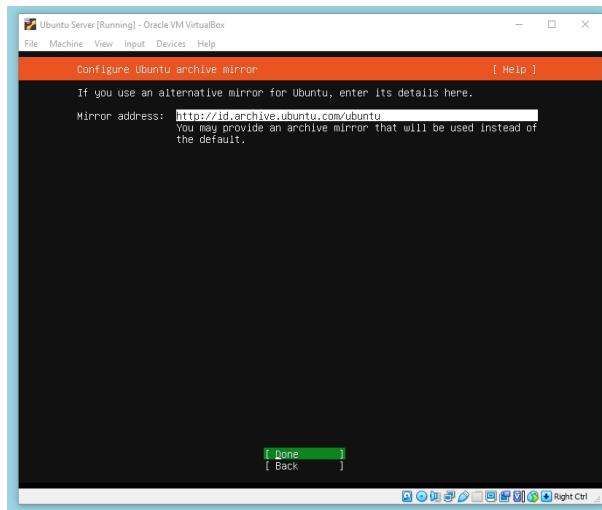
4. Atur **network connections**. Disini saya biarkan *default*. Kemudian tekan *done*.



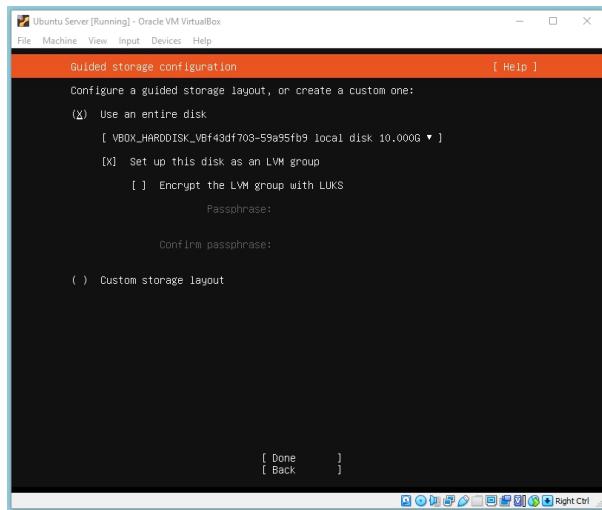
5. Atur **proxy address** yang ingin digunakan. Disini saya biarkan kosong, kemudian tekan *done*.



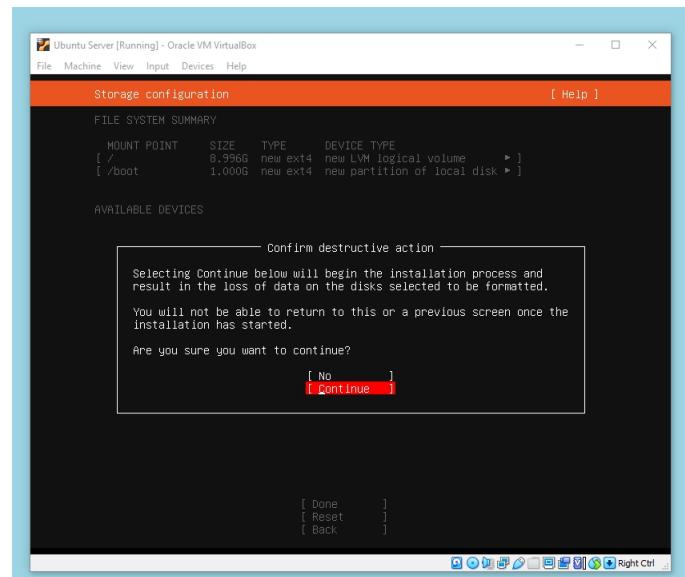
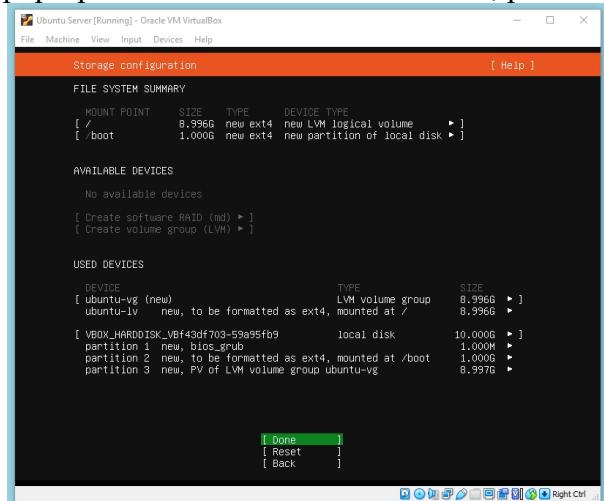
6. Atur **ubuntu archive mirror address**. Disini saya biarkan *default*, kemudian tekan *done*.



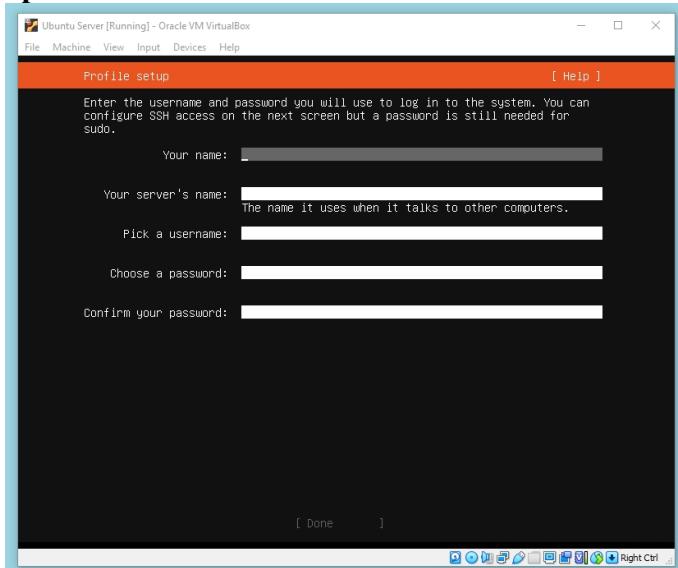
7. Atur **guided storage configuration**. Disini saya biarkan *default*, kemudian tekan *done*.

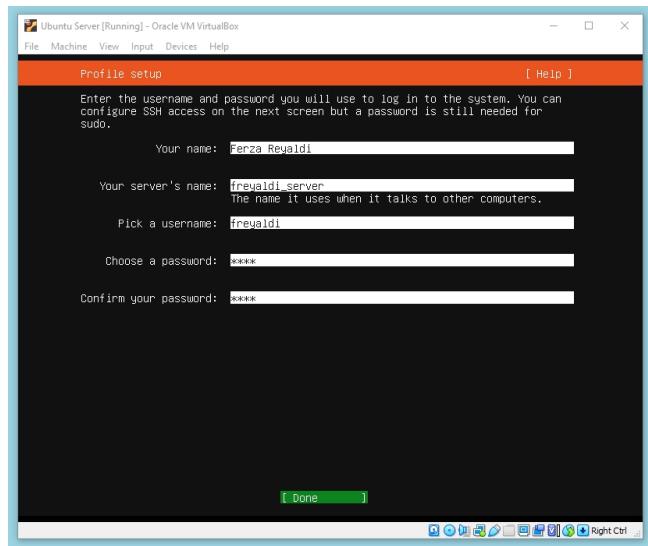


8. Atur **storage configuration**. Disini saya biarkan *default*, kemudian tekan *done*. Kemudian muncul pop-up konfirmasi **destructive action**, pilih *continue*.

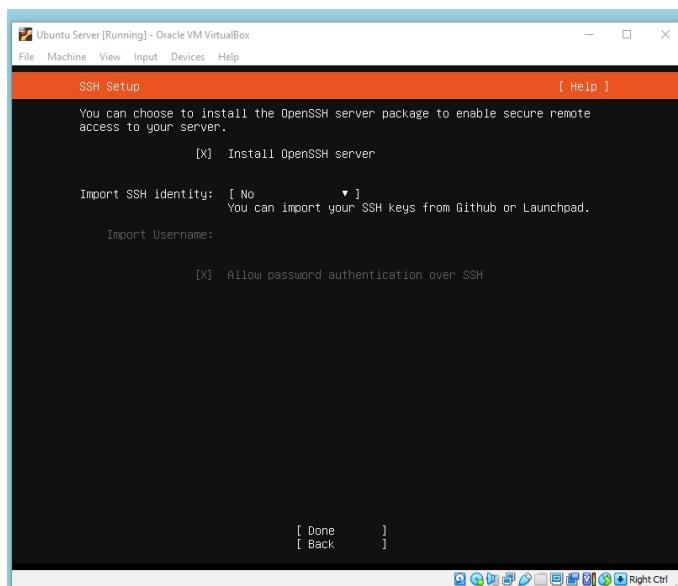
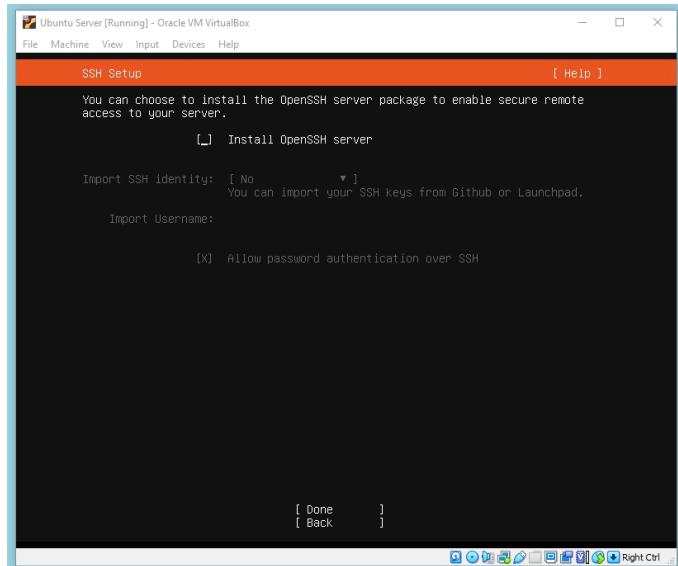


9. Isi Profile setup.

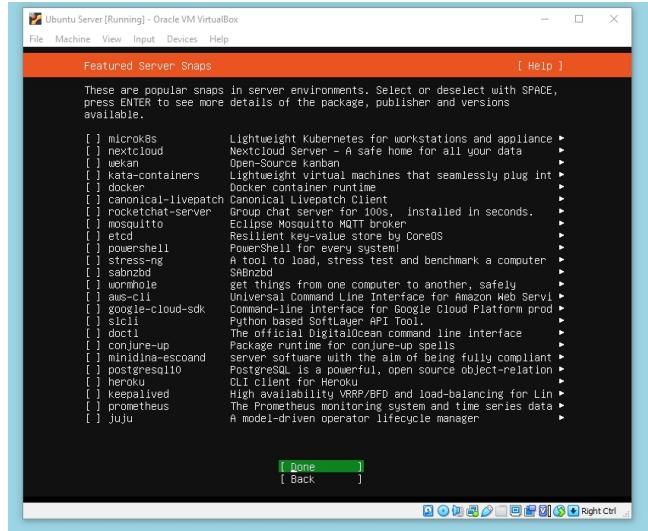




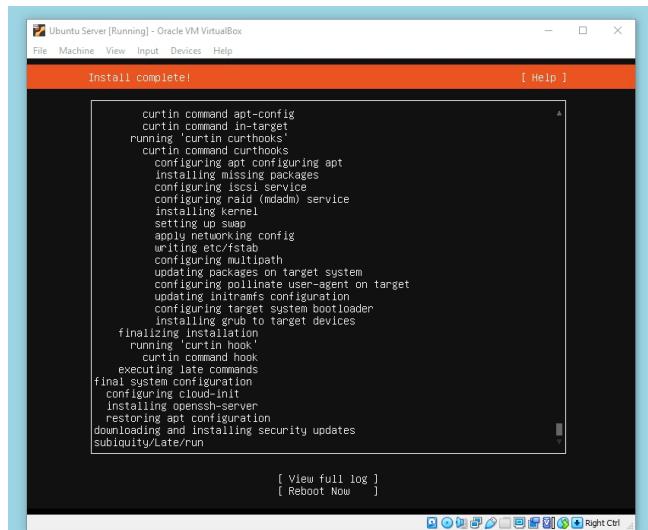
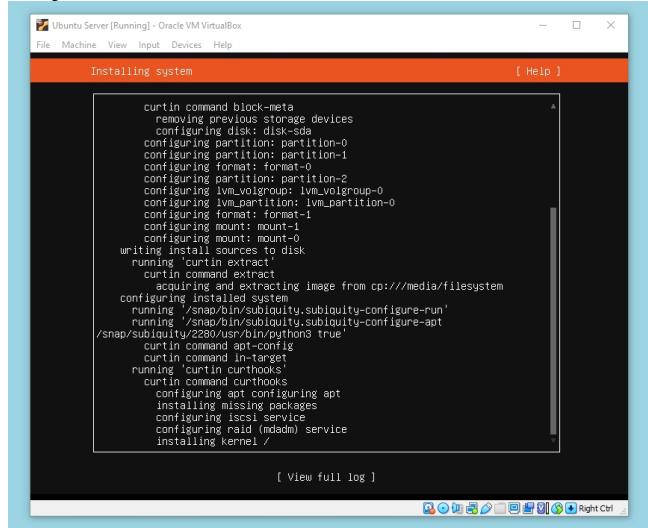
10. Atur **SSH Setup**. Disini saya pilih untuk menginstal **OpenSSH Server**. Kemudian tekan *done*.



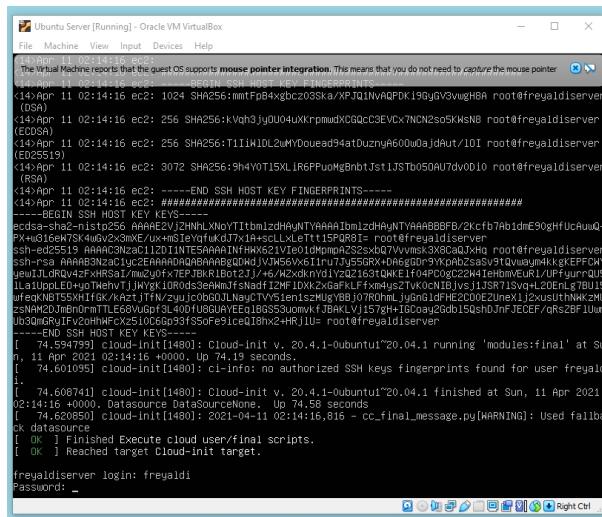
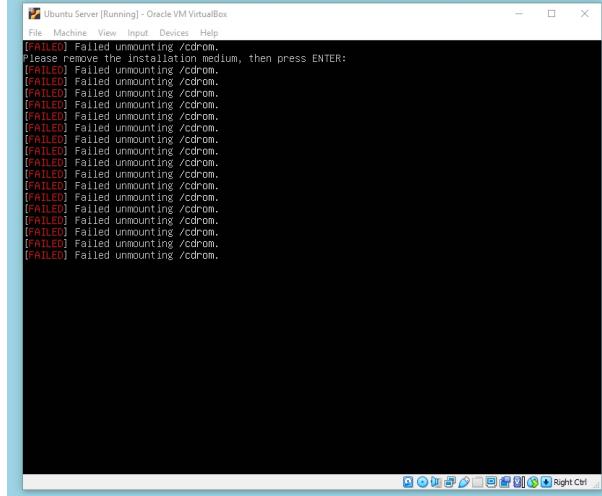
11. Kemudian untuk instalasi **featured server snaps**, saya biarkan *default*, kemudian tekan *done*.



12. Proses instalasi dijalankan. Jika selesai, tekan *reboot now*.

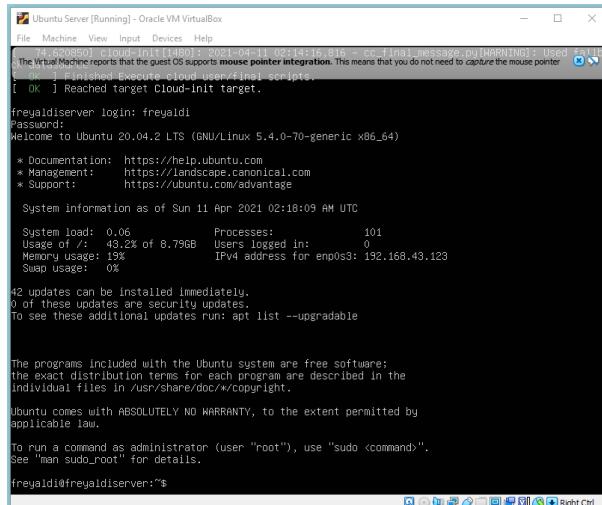


13. *Unmount CD* (pilih *Devices > Secondary > Unmount*), kemudian tekan *Enter*. Tunggu proses *booting* sampai selesai.



Install Apache2, MySQL, PHP, dan Wordpress

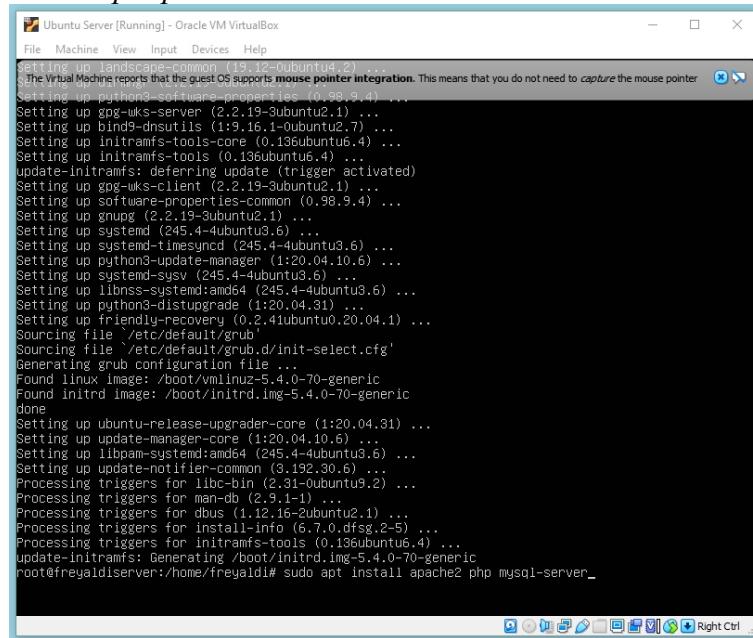
1. Login ke server.



2. Pindah menjadi super-user.

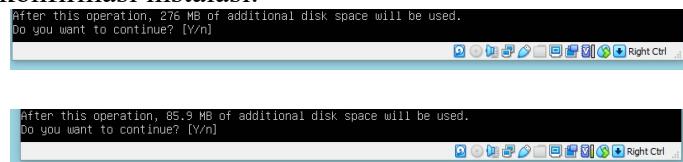
```
freyaldi@freyaldiserver:~$ sudo su  
[sudo] password for freyaldi:  
root@freyaldiserver:/home/freyaldi# apt update  
Hit: http://id.archive.ubuntu.com/ubuntu focal InRelease  
0% [Waiting for headers]
```

3. Lakukan perintah *apt update* sebelum melakukan instalasi.



```
Ubuntu Server [Running] - Oracle VM VirtualBox  
File Machine View Input Devices Help  
Setting up landscape-common (19.12-0ubuntu14.2) ...  
The Virtual Machine reports that the guest OS supports mouse pointer integration. This means that you do not need to capture the mouse pointer  
Setting up python3-software-properties (0.98.9.4) ...  
Setting up gpg-wks-server (2.2.19-3ubuntu2.1) ...  
Setting up bind9-dnsutils (1:9.16.1-0ubuntu2.7) ...  
Setting up initramfs-tools-core (0.136ubuntu6.4) ...  
Setting up initramfs-tools (0.136ubuntu6.4) ...  
update-initramfs: deferring update (trigger activated)  
Setting up gpg-wks-client (2.2.19-3ubuntu2.1) ...  
Setting up software-properties-common (0.98.9.4) ...  
Setting up gnupg (2.2.19-3ubuntu2.1) ...  
Setting up systemd (245.4-4ubuntu3.6) ...  
Setting up systemd-timesyncd (245.4-4ubuntu3.6) ...  
Setting up python3-update-manager (1:20.04.10.6) ...  
Setting up systemd-sysv (245.4-4ubuntu3.6) ...  
Setting up libnss-systemd:amd64 (245.4-4ubuntu3.6) ...  
Setting up python3-distupgrade (1:20.04.31) ...  
Setting up friendly-recovery (0.2.4ubuntu0.20.04.1) ...  
Sourcing file ./etc/default/grub  
Sourcing file /etc/default/grub.d/init-select.cfg  
Generating grub configuration file ...  
Found linux image: /boot/vmlinuz-5.4.0-70-generic  
Found initrd image: /boot/initrd.img-5.4.0-70-generic  
done  
Setting up ubuntu-release-upgrader-core (1:20.04.31) ...  
Setting up update-manager-core (1:20.04.10.6) ...  
Setting up libpam-systemd:amd64 (245.4-4ubuntu3.6) ...  
Setting up update-notifier-common (3.192.30.6) ...  
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...  
Processing triggers for man-db (2.9.1-1) ...  
Processing triggers for dbus (1.12.16-2ubuntu2.1) ...  
Processing triggers for install-info (6.7.0.dfsg-2-5) ...  
Processing triggers for initramfs-tools (0.136ubuntu6.4) ...  
update-initramfs: Generating /boot/initrd.img-5.4.0-70-generic  
root@freyaldiserver:/home/freyaldi# sudo apt install apache2 php mysql-server
```

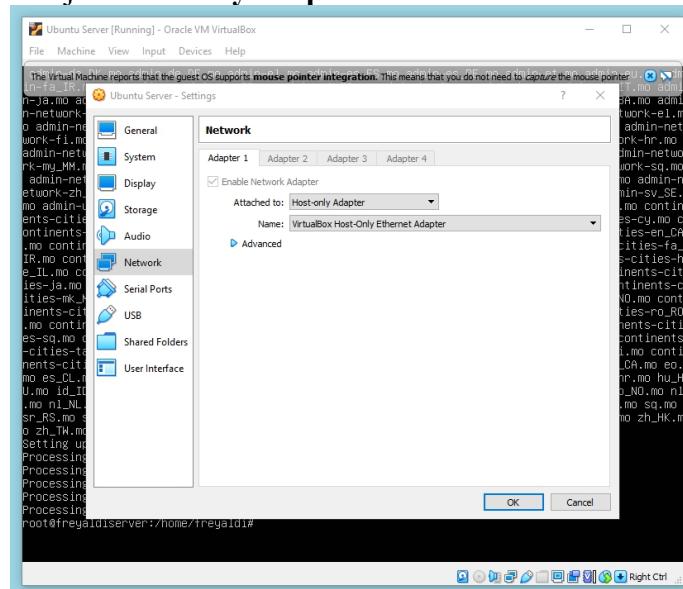
4. Lakukan instalasi dengan perintah *apt install apache2 mysql-server php wordpress*. Tekan Y untuk konfirmasi instalasi.



```
After this operation, 276 MB of additional disk space will be used.  
Do you want to continue? [Y/n]
```

```
After this operation, 85.9 MB of additional disk space will be used.  
Do you want to continue? [Y/n]
```

5. Atur jaringan menjadi host-only adapter.



6. Buat file `wordpress.conf` di direktori `/etc/apache2/sites-available/` dengan perintah `touch`. Kemudian tulis file menggunakan perintah `nano`, lalu simpan.

```
GNU nano 4.8                               /etc/apache2/sites-available/wordpress.conf Modified
Alias /blog /usr/share/wordpress
<Directory /usr/share/wordpress>
    Option FollowSymLinks
    AllowOverride Limit Options FileInfo
    DirectoryIndex index.php
    Order allow,deny
    Allow from all
</Directory>
<Directory /usr/share/wordpress/wp-content>
    Options FollowSymLinks
    Order allow,deny
    Allow from all
</Directory>
```

7. Hidupkan ulang *service apache* menggunakan perintah *sudo a2ensite wordpress*, *sudo a2enmod rewrite*, dan *sudo service apache2 reload*.

```
root@freyalidserver:/home/freyalid# sudo a2ensite wordpress
Site wordpress already enabled
root@freyalidserver:/home/freyalid# sudo a2enmod rewrite
Module rewrite already enabled
root@freyalidserver:/home/freyalid# sudo service apache2 reload
apache2.service is not active, cannot reload.
root@freyalidserver:/home/freyalid# sudo service apache2 restart
root@freyalidserver:/home/freyalid# sudo service apache2 reload
root@freyalidserver:/home/freyalid# _
```

8. Login ke MySQL menggunakan perintah `mysql -u root`.

```
root@freya-diselserver:/home/freya/gain# mysql -u root
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.23-0ubuntu0.20.04.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> _
```

9. Buat *database* untuk *wordpress* dan buat *user* yang diberikan izin untuk mengolah *database*.

```
mysql> create database wordpress;
Query OK, 1 row affected (0.03 sec)

mysql> create user 'freyaldi'@'localhost' identified by '0404';
Query OK, 0 rows affected (1.23 sec)

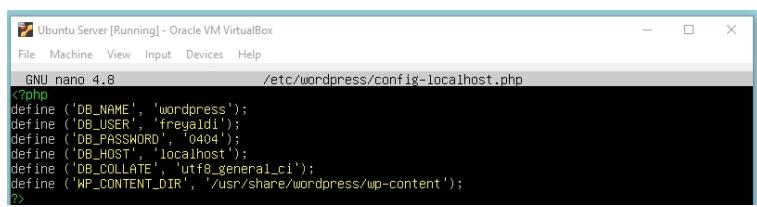
mysql> grant all on wordpress.* to 'freyaldi'@'localhost';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your
MySQL server version for the right syntax to use near 'wordpress.* to 'freyaldi'@'localhost'' at line
1
mysql> grant all on wordpress.* to 'freyaldi'@'localhost';
Query OK, 0 rows affected (1.72 sec)

mysql> flush privileges;
Query OK, 0 rows affected (0.01 sec)

mysql> _
```

10. Edit file **config-localhost.php** di **/etc/wordpress/** dan simpan.

```
root@freyaldiserver:/home/freyaldi# nano /etc/wordpress/config-localhost.php
```

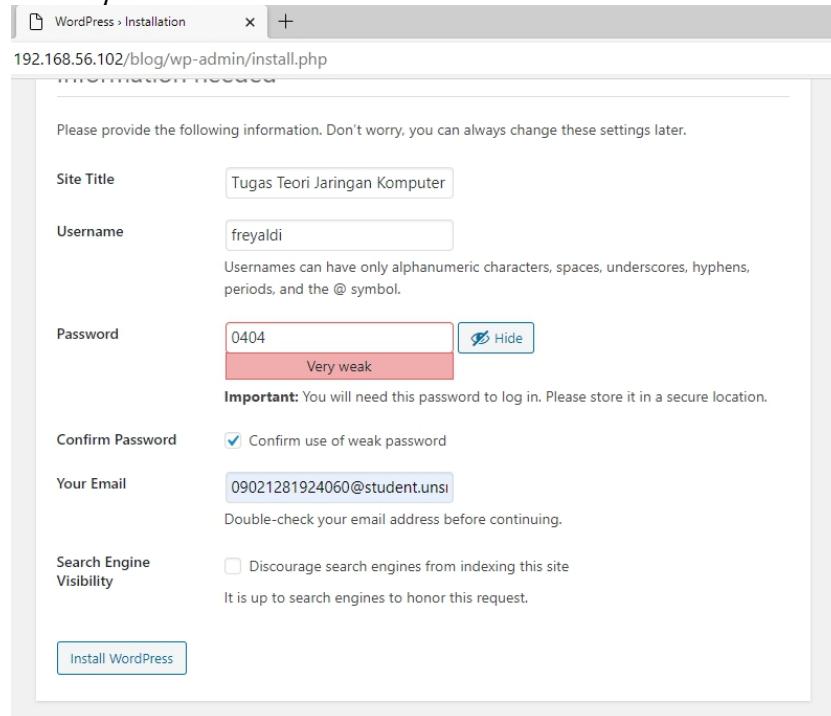


```
<?php
define ('DB_NAME', 'wordpress');
define ('DB_USER', 'freyaldi');
define ('DB_PASSWORD', '0404');
define ('DB_HOST', 'localhost');
define ('DB_COLLATE', 'utf8_general_ci');
define ('WP_CONTENT_DIR', '/usr/share/wordpress/wp-content');
?>
```

11. Kemudian salin file **config-localhost.php** dan tempel dengan nama **config-<IP-anda>** di direktori yang sama. (IP bisa dicek menggunakan perintah *ip a*)

```
root@freyaldiserver:/home/freyaldi# cp /etc/wordpress/config-localhost.php /etc/wordpress/config-192.168.56.102.php
root@freyaldiserver:/home/freyaldi# service mysql restart
root@freyaldiserver:/home/freyaldi# _
```

12. Buka *website <IP-anda>/blog/*. kemudian isi data yang diperlukan. Kemudian tekan *install wordpress*.



WordPress > Installation

192.168.56.102/blog/wp-admin/install.php

Please provide the following information. Don't worry, you can always change these settings later.

Site Title: Tugas Teori Jaringan Komputer

Username: freyaldi

>Password: 0404
Very weak

Important: You will need this password to log in. Please store it in a secure location.

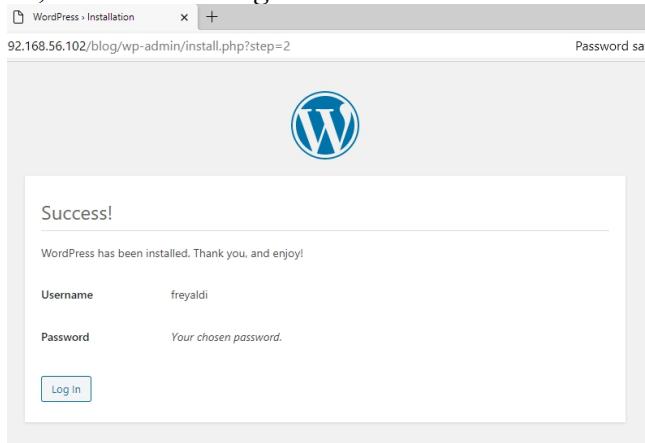
Confirm Password: Confirm use of weak password

Your Email: 09021281924060@student.unsi
Double-check your email address before continuing.

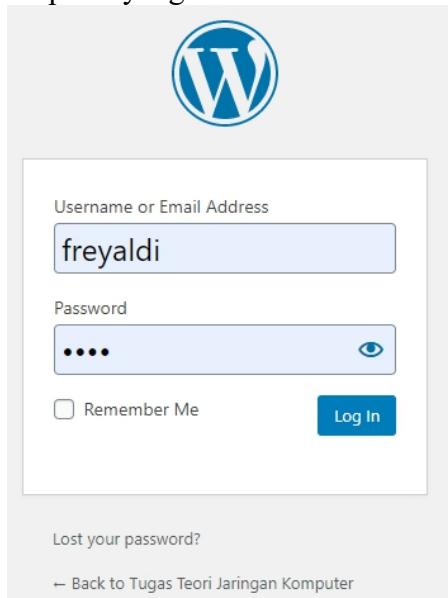
Search Engine Visibility: Discourage search engines from indexing this site
It is up to search engines to honor this request.

Install WordPress

13. Instalasi berhasil, tekan tombol *login*.



14. *Login* dengan akun wordpress yang sudah dibuat.



15. Wordpress siap digunakan.

