

UBUNTU SERVER WITH WORDPRESS BY PUTTY (SSH)

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Jurusan : Sistem Komputer

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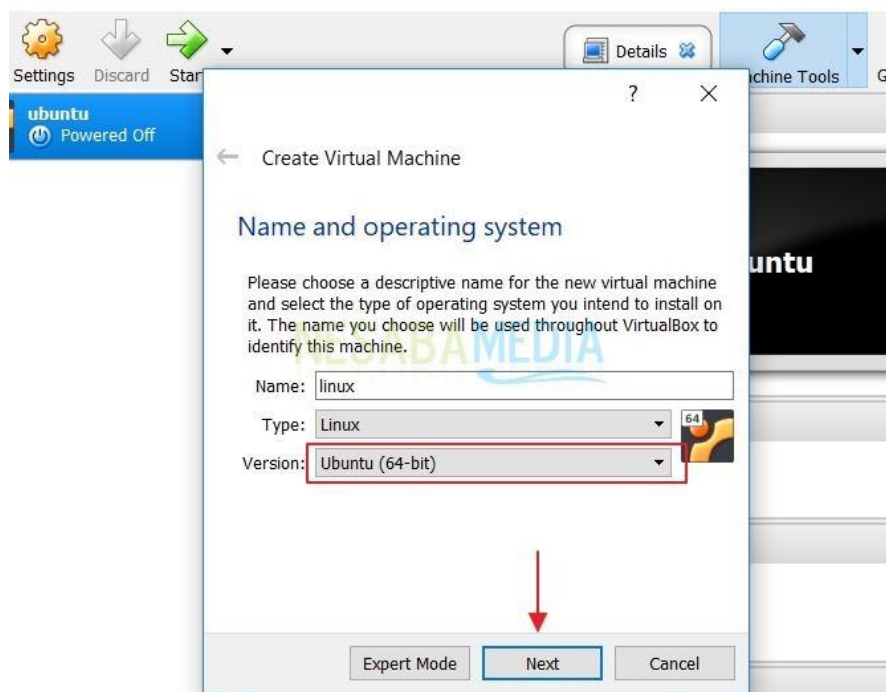
Mata Kuliah: Pengantar Telekomunikasi

1. Aplikasi yang harus disediakan:

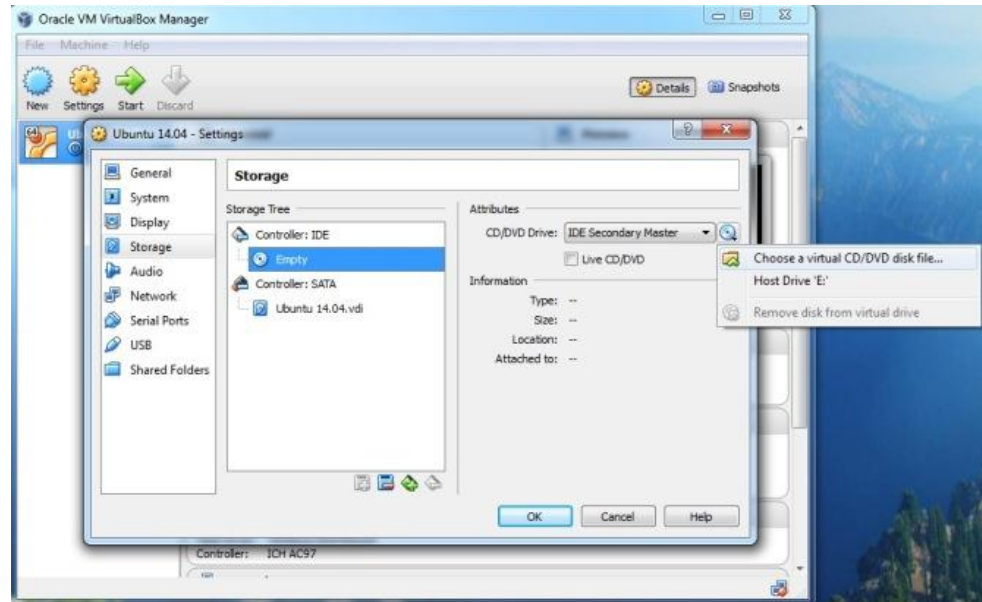
- Virtualbox
- Ubuntu (Ubuntu yang digunakan 20.04)
- Putty

2. Langkah-langkah yang dilakukan adalah dengan catatan:

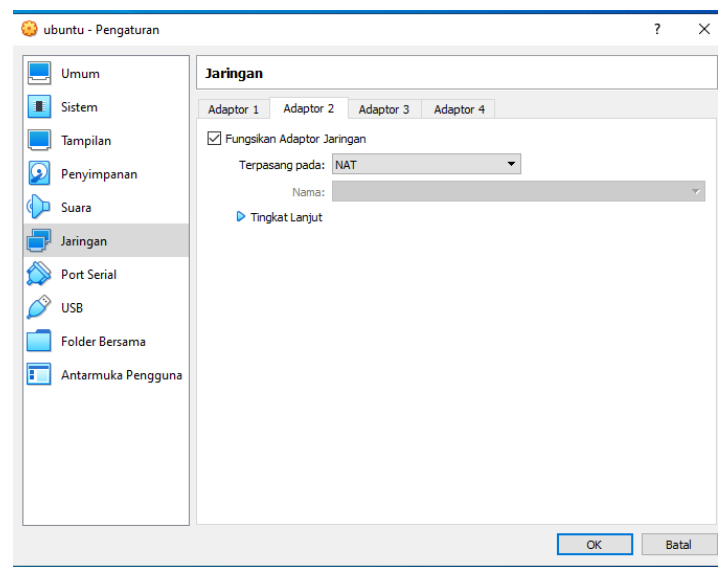
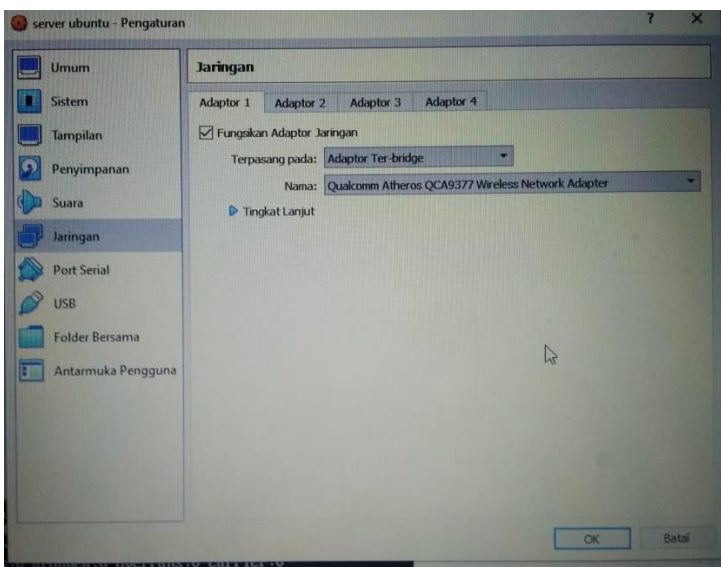
- Klik Icon New untuk membuat Virtual Machine. Selanjutnya akan muncul jendela **Nama dan Mesin Virtual**. Disini diminta untuk mengisi kolom **NAME** Virtual Mesin yang akan kita *install* dan juga **VERSI** dari OS tersebut, disini saya menggunakan Ubuntu 20.04.1, jadi nama OS dan Versinya saya cantumkan **Linux** dan **Ubuntu (64 bit)** sesuai ISO yang digunakan, Kemudian klik **LANJUT** untuk melanjutkan ke tahap berikutnya.



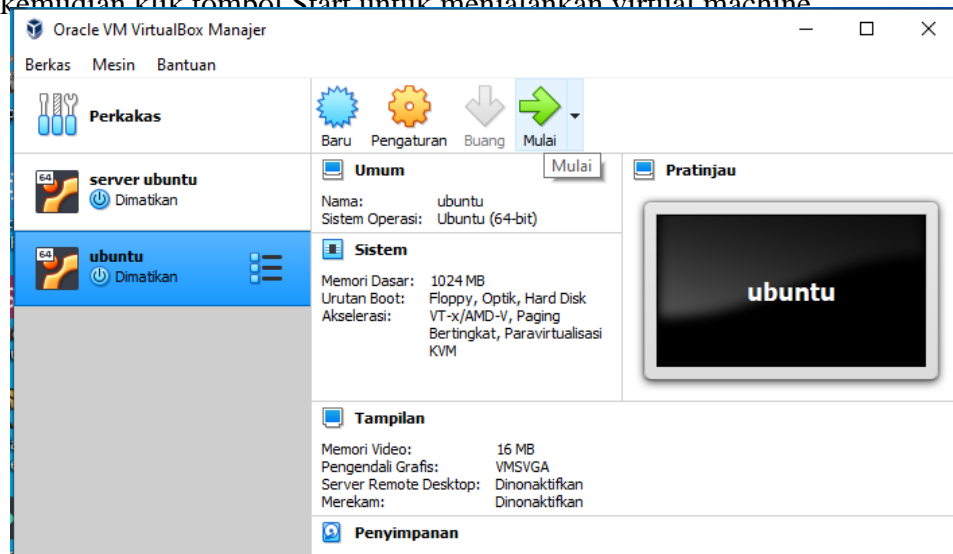
- Klik Storage, kemudian pada bagian Controller IDE, klik icon CD pada sebelah kanan menu tersebut. Klik Choose Disk untuk memilih file ISO Ubuntu. Setelah file ISO berhasil ditambahkan ,jangan lupa klik **OK**.



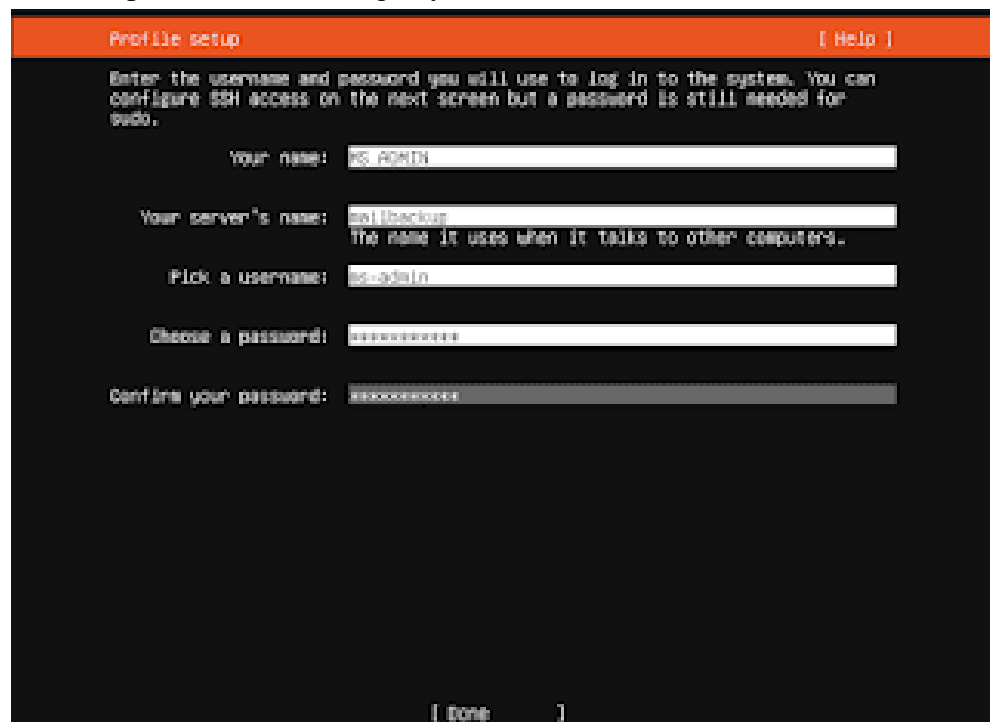
- Kemudian masuk kepengaturan jaringan komputer virtual, dan ubah jaringan nya pada adaptor 1 menjadi Bridged Adapter dan adaptor 2 menjadi NAT. Sedangkan untuk name abaikan saja, karena membaca otomatis dari komputer kita. Jika sudah selesai *klik* tombol **OK**.



- Pada VirtualBox Manager, pilih virtual machine yang baru saja dibuat, lalu kemudian klik tombol Start untuk menyalakan virtual machine

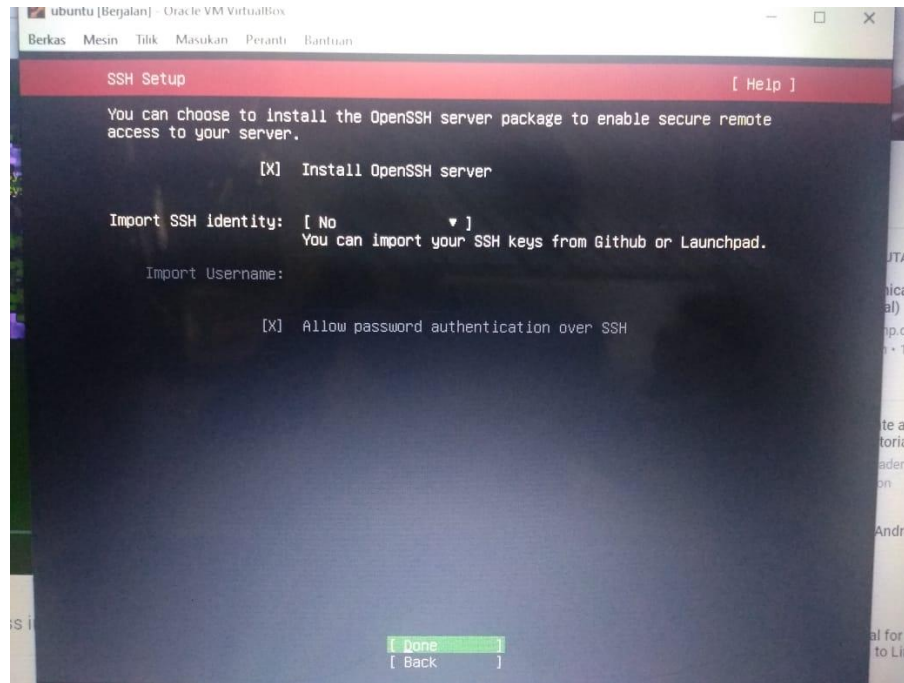


- Lakukan instalasi seperti software pada umumnya. Terdapat konfigurasi bahasa yang akan digunakan, kemudian installation storage, dan pembuatan account (username, password, dan sebagainya)



Contoh gambar

- Pada layar SSH Configuration, aktifkan fitur ini. Agar aktifitas apapun yang berhubungan dengan server dapat dilakukan melalui SSH (tidak akses secara langsung).

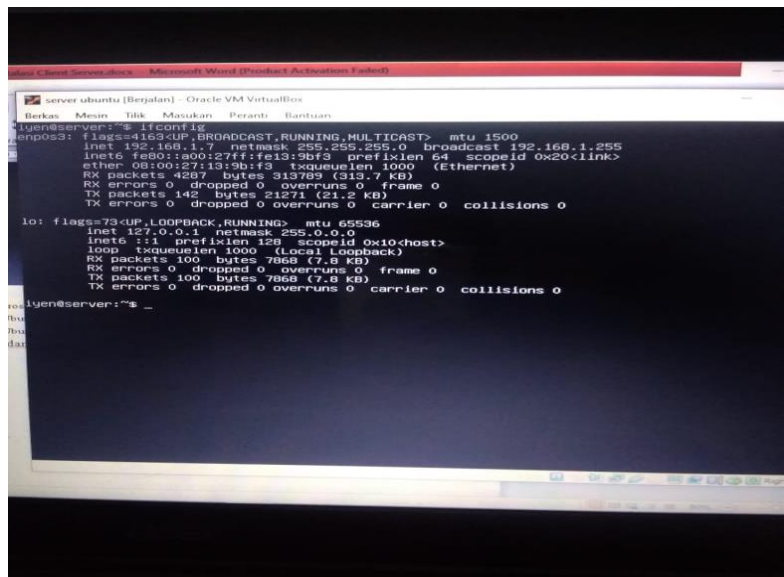


Proses Instalasi akan berjalan, jika sudah selesai. Silahkan Reboot/Restart Server Ubuntu.

- Ubuntu Server 20.04 siap digunakan.

3. Install dan Konfigurasi SSH

- Ketik perintah :
\$ sudo apt install net-tools . untuk membuka ifconfig
- Jika sudah selesai kemudian ketik \$ ifconfig
Lihat IP Adress Host



- Lalu ketik : \$ sudo apt install openssh-server

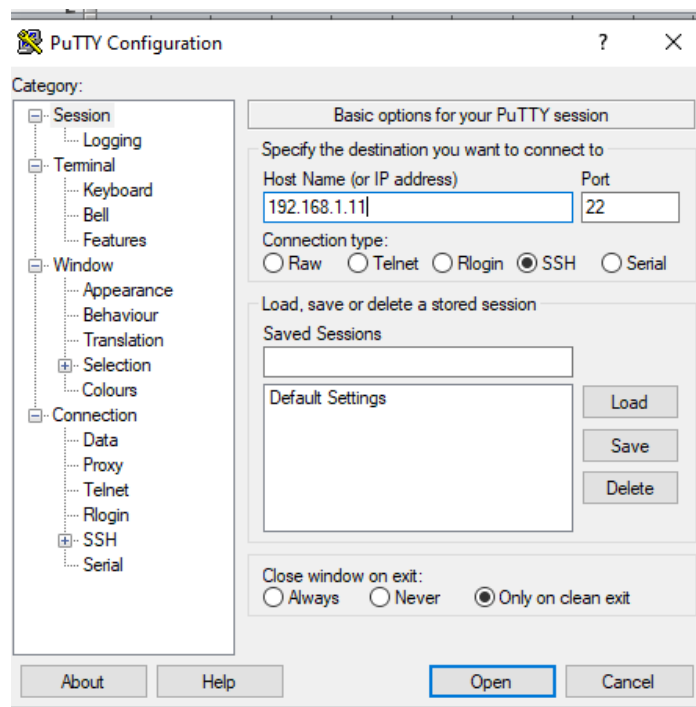
Jika sudah menginstall, untuk mengetahui apakah ssh active atau tidak maka ketika: \$ sudo systemctl status ssh

```
root@server:/home/iyen# sudo systemctl status ssh
• ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2020-11-30 06:04:10 UTC; 8h ago
     Docs: man:sshd(8)
           man:sshd_config(5)
   Process: 639 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
    Main PID: 716 (sshd)
      Tasks: 1 (limit: 1074)
     Memory: 5.3M
    CGroup: /system.slice/ssh.service
            └─716 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups

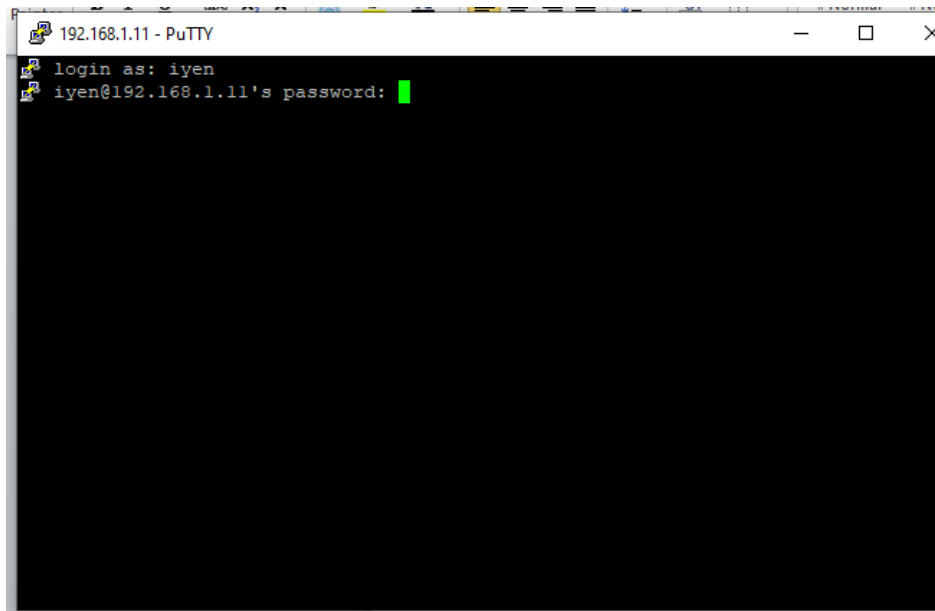
Nov 30 06:04:08 server systemd[1]: Starting OpenBSD Secure Shell server...
Nov 30 06:04:10 server sshd[716]: Server listening on 0.0.0.0 port 22.
Nov 30 06:04:10 server sshd[716]: Server listening on :: port 22.
Nov 30 06:04:10 server systemd[1]: Started OpenBSD Secure Shell server.
Nov 30 14:10:19 server sshd[1818]: Accepted password for iyen from 192.168.1.5 port 54697 ssh2
Nov 30 14:10:19 server sshd[1818]: pam_unix(sshd:session): session opened for user iyen by (uid=0)
root@server:/home/iyen#
```

4. Install dan Remoot Putty

- Buka aplikasi Putty, ketika masuk maka akan diminta IP address (host name)



- Lalu tekan open, maka kita akan diminta untuk login pada akun yang sudah kita buat sebelumnya pada ubuntu server



5. Membuat Wordpress

- Install apache2 dengan cara ketik: `$ sudo apt install apache2`

Jika sudah menginstall apache2 kita dapat melihat status apakah apache itu aktif atau tidak dengan cara ketik: `$ sudo systemctl status apache2`

```
root@server:/var/www/html# sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2020-11-30 06:04:12 UTC; 8h ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 589 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
    Main PID: 737 (apache2)
       Tasks: 7 (limit: 1074)
      Memory: 17.3M
    CGroup: /system.slice/apache2.service
            └─ 737 /usr/sbin/apache2 -k start
              743 /usr/sbin/apache2 -k start
              744 /usr/sbin/apache2 -k start
              745 /usr/sbin/apache2 -k start
              746 /usr/sbin/apache2 -k start
              747 /usr/sbin/apache2 -k start
             2144 /usr/sbin/apache2 -k start

Nov 30 06:04:08 server systemd[1]: Starting The Apache HTTP Server...
Nov 30 06:04:12 server apachectl[638]: AH00558: apache2: Could not reliably determine the server's
Nov 30 06:04:12 server systemd[1]: Started The Apache HTTP Server.
lines 1-20/20 (END)
```

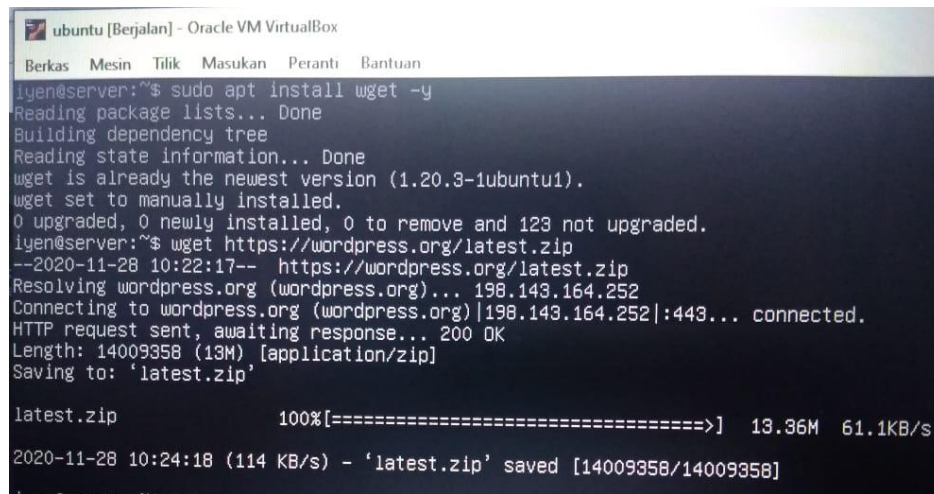
- Install mariadb dengan cara mengetikan: `$ sudo apt install mariadb-server mariadb-client`

Jika sudah menginstall aplikasi maka kita bisa melihat status mariadb tersebut apakah aktif atau tidak dengan cara mengetikan : `$ sudo systemctl status mariadb`

```
iyen@server:~$ sudo systemctl status mariadb
[sudo] password for iyen:
● mariadb.service - MariaDB 10.3.25 database server
   Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2020-11-30 16:43:13 UTC; 45s ago
     Docs: man:mysqld(8)
           https://mariadb.com/kb/en/library/systemd/
   Process: 597 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var/run/mysql (code=exi
   Process: 648 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_START_POSITION (code=ex
   Process: 654 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] && VAR= [ ] VAR= cd /usr
   Process: 935 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_START_POSITION (code=ex
   Process: 937 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/SUCCESS)
    Main PID: 734 (mysqld)
      Status: "Taking your SQL requests now..."
       Tasks: 31 (limit: 1074)
      Memory: 97.5M
    CGroup: /system.slice/mariadb.service
            └─ 734 /usr/sbin/mysqld

Nov 30 16:43:03 server systemd[1]: Starting MariaDB 10.3.25 database server...
Nov 30 16:43:09 server mysqld[734]: 2020-11-30 16:43:09 0 [Note] /usr/sbin/mysqld (mysqld 10.3.25-
Nov 30 16:43:09 server mysqld[734]: 2020-11-30 16:43:09 0 [Warning] Could not increase number of m
Nov 30 16:43:13 server systemd[1]: Started MariaDB 10.3.25 database server.
Nov 30 16:43:13 server /etc/mysql/debian-start[942]: Upgrading MySQL tables if necessary.
Nov 30 16:43:14 server /etc/mysql/debian-start[945]: Looking for 'mysql' as: /usr/bin/mysql
Nov 30 16:43:14 server /etc/mysql/debian-start[945]: Looking for 'mysqlcheck' as: /usr/bin/mysqlch
Nov 30 16:43:14 server /etc/mysql/debian-start[945]: This installation of MySQL is already upgrade
Nov 30 16:43:14 server /etc/mysql/debian-start[954]: Checking for insecure root accounts.
Nov 30 16:43:14 server /etc/mysql/debian-start[958]: Triggering myisam-recover for all MyISAM tabl
lines 1-27/27 (END)
```


- Lalu konfigurasi database dengan mengetikan perintah :
\$ sudo mysql_secure_installation
- Install php dengan cara mengetikan: \$ sudo apt install php
- Download wordpress.org
- Install wget dengan cara mengetikan: sudo apt install wget -y



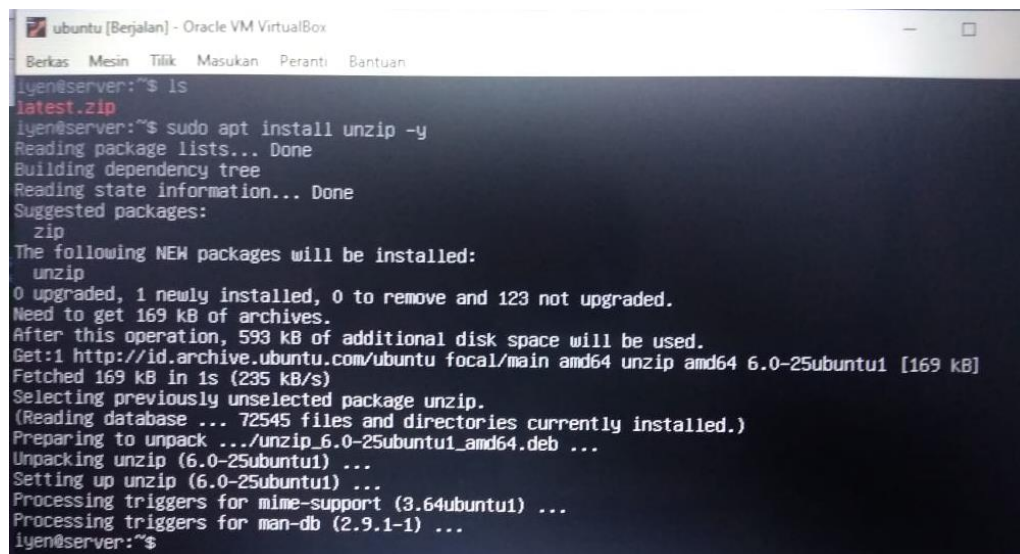
```

ubuntu [Berjalan] - Oracle VM VirtualBox
Berkas  Mesin  Tilik  Masukan  Peranti  Bantuan
lyen@server:~$ sudo apt install wget -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
wget is already the newest version (1.20.3-1ubuntu1).
wget set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 123 not upgraded.
lyen@server:~$ wget https://wordpress.org/latest.zip
--2020-11-28 10:22:17--  https://wordpress.org/latest.zip
Resolving wordpress.org (wordpress.org)... 198.143.164.252
Connecting to wordpress.org (wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 14009358 (13M) [application/zip]
Saving to: 'latest.zip'

latest.zip                               100%[=====>] 13.36M  61.1KB/s
2020-11-28 10:24:18 (114 KB/s) - 'latest.zip' saved [14009358/14009358]

```

- Untuk melihat file di telah di download ketik : ls
Lalu akan muncul zip file dari wordpress
- Untuk buka zip harus meng-install package dengan cara mengetikan:
\$ sudo apt install unzip -y
- Lalu ketikan : \$ unzip latest.zip



```

ubuntu [Berjalan] - Oracle VM VirtualBox
Berkas  Mesin  Tilik  Masukan  Peranti  Bantuan
lyen@server:~$ ls
latest.zip
lyen@server:~$ sudo apt install unzip -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
Suggested packages:
  zip
The following NEW packages will be installed:
  unzip
0 upgraded, 1 newly installed, 0 to remove and 123 not upgraded.
Need to get 169 kB of archives.
After this operation, 593 kB of additional disk space will be used.
Get:1 http://id.archive.ubuntu.com/ubuntu focal/main amd64 unzip amd64 6.0-25ubuntu1 [169 kB]
Fetched 169 kB in 1s (235 kB/s)
Selecting previously unselected package unzip.
(Reading database ... 72545 files and directories currently installed.)
Preparing to unpack .../unzip_6.0-25ubuntu1_amd64.deb ...
Unpacking unzip (6.0-25ubuntu1) ...
Setting up unzip (6.0-25ubuntu1) ...
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
lyen@server:~$

```

- Setelah itu ketikan ls lagi dan bisa dilihat kita telah membuat direktori dengan berarti wordpress ok

```

Inflating: wordpress/wp-admin/js/code-editor.min.js
Inflating: wordpress/wp-admin/js/set-post-thumbnail.js
Inflating: wordpress/wp-admin/options-permalink.php
Inflating: wordpress/wp-admin/widgets.php
Inflating: wordpress/wp-admin/setup-config.php
Inflating: wordpress/wp-admin/install.php
Inflating: wordpress/wp-admin/admin-header.php
Inflating: wordpress/wp-admin/post-new.php
Inflating: wordpress/wp-admin/themes.php
Inflating: wordpress/wp-admin/options-reading.php
Inflating: wordpress/wp-trackback.php
Inflating: wordpress/wp-comments-post.php
iyen@server:~$ ls
latest.zip  wordpress
iyen@server:~$ cd wordpress
iyen@server:~/wordpress$ ls
index.php      wp-admin      wp-content    wp-load.php    wp-signup.php
license.txt    wp-blog-header.php wp-cron.php    wp-login.php    wp-trackback.php
readme.html   wp-comments-post.php wp-includes    wp-mail.php     xmlrpc.php
wp-activate.php wp-config-sample.php wp-links-opml.php wp-settings.php
iyen@server:~/wordpress$

```

- Copy semua file secara rekursif dengan cara ketik : `$ sudo cp -r * /var/www/html` dimana kita harus meletakkan kode website
- Jika ingin menjadi hosting website wordpress kita harus meng-copy kode di atas dari `/var/www/html` dengan cara mengetikan : `cd /var/www/html/`
- Kita harus menghapus satu file dengan indeks dengan cara ketik:
`$ sudo rm -rf index.html`

```

Inflating: wordpress/wp-admin/admin-header.php
Inflating: wordpress/wp-admin/post-new.php
Inflating: wordpress/wp-admin/themes.php
Inflating: wordpress/wp-admin/options-reading.php
Inflating: wordpress/wp-trackback.php
Inflating: wordpress/wp-comments-post.php
iyen@server:~$ ls
latest.zip  wordpress
iyen@server:~$ cd wordpress
iyen@server:~/wordpress$ ls
index.php      wp-admin      wp-content    wp-load.php    wp-signup.php
license.txt    wp-blog-header.php wp-cron.php    wp-login.php    wp-trackback.php
readme.html   wp-comments-post.php wp-includes    wp-mail.php     xmlrpc.php
wp-activate.php wp-config-sample.php wp-links-opml.php wp-settings.php
iyen@server:~/wordpress$ sudo cp -r * /var/www/html
cp: cannot stat '.r': No such file or directory
cp: -r not specified; omitting directory 'wp-admin'
cp: -r not specified; omitting directory 'wp-content'
cp: -r not specified; omitting directory 'wp-includes'
iyen@server:~/wordpress$ sudo cp -r * /var/www/html
iyen@server:~/wordpress$ cd /var/www/html/
iyen@server:/var/www/html$ ls
index.html    wp-activate.php    wp-config-sample.php wp-links-opml.php wp-settings.php
index.php     wp-admin           wp-content          wp-load.php       wp-signup.php
license.txt   wp-blog-header.php wp-cron.php         wp-login.php      wp-trackback.php
readme.html  wp-comments-post.php wp-includes         wp-mail.php       xmlrpc.php
wp-activate.php wp-config-sample.php wp-links-opml.php  wp-settings.php
iyen@server:/var/www/html$ sudo rm -rf index.html
iyen@server:/var/www/html$ ls
index.php      wp-admin      wp-content    wp-load.php    wp-signup.php
license.txt    wp-blog-header.php wp-cron.php    wp-login.php    wp-trackback.php
readme.html   wp-comments-post.php wp-includes    wp-mail.php     xmlrpc.php
wp-activate.php wp-config-sample.php wp-links-opml.php wp-settings.php
iyen@server:/var/www/html$

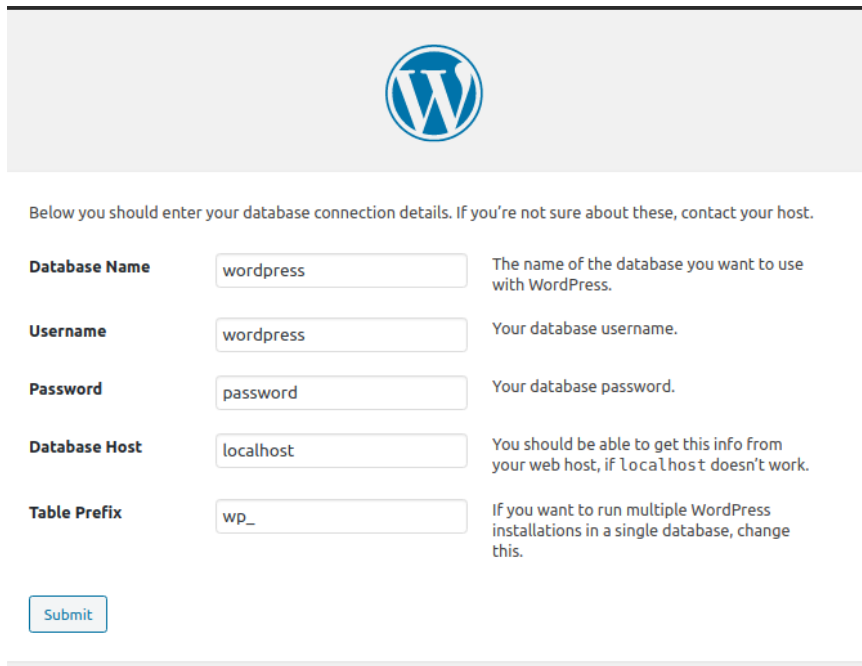
```

- Install php dengan ketikan : `$ sudo apt install php-mysql php-cgi php-cli php-gd -y`

- Lalu restart apache2 dengan cara mengetikan : \$ sudo systemctl restart apache2
- Lalu check ip address dengan cara ketik : ip a

```
iyen@server:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:d7:43:79 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.11/24 brd 192.168.1.255 scope global dynamic enp0s3
        valid_lft 84705sec preferred_lft 84705sec
    inet6 fe80::a00:27ff:fed7:4379/64 scope link
        valid_lft forever preferred_lft forever
iyen@server:~$
```

- Lalu check public ip address di web browser
- Pilih bahasa yang digunakan yaitu English
- Lalu kita akan di minta untuk mengisi semacam biodata untuk host



The image shows the WordPress installation screen for database configuration. At the top is the WordPress logo. Below it is a message: "Below you should enter your database connection details. If you're not sure about these, contact your host." There are five input fields with labels and descriptions:

Field Label	Value Entered	Description
Database Name	wordpress	The name of the database you want to use with WordPress.
Username	wordpress	Your database username.
Password	password	Your database password.
Database Host	localhost	You should be able to get this info from your web host, if localhost doesn't work.
Table Prefix	wp_	If you want to run multiple WordPress installations in a single database, change this.

At the bottom left is a "Submit" button.

- Setelah itu kita diminta untuk mengisi username dan password untuk wordpress itu sendiri

Selamat datang

Selamat datang di proses instalasi 5 menit WordPress yang terkenal! Isikan informasi di bawah ini dan Anda akan memulai pengalaman menggunakan platform penerbitan pribadi yang paling mudah dikembangkan dan berkemampuan luas di dunia.

Informasi yang dibutuhkan

Silakan berikan informasi berikut. Jangan khawatir, Anda selalu dapat mengubah pengaturan ini nanti.

Judul Situs	<input type="text" value="Belajar Wordpress"/>
Nama Pengguna	<input type="text" value="admin"/> <small>Nama Pengguna hanya boleh berisi karakter alfanumerik (huruf dan angka), spasi, garis bawah, tanda minus, titik, dan simbol @.</small>
Sandi	<div><input type="password" value="....."/> Tampilkan</div> <div>Kuat</div> <p>Penting: Anda butuh sandi ini untuk log masuk. Simpanlah di tempat yang aman.</p>
Email Anda	<input type="text" value="admin@tutorial.com"/> <small>Periksa ulang alamat email Anda sebelum melanjutkan.</small>
Penempatan pada Mesin Pencari	<input checked="" type="checkbox"/> Halangi mesin pencari untuk mengindeks situs ini <small>Sepenuhnya tergantung mesin pencari untuk menghormati permintaan ini.</small>

[Instal WordPress](#)



Username or Email Address

Password

☐ Remember Me

[Log In](#)

[Lost your password?](#)

[← Back to Project web](#)

- Lalu wordpress kita pun jadi Kita bisa mencari di google chrome dengan mengetik http://ip_address/wp-login.php
- Dan login menggunakan username dan password yang telah kita buat sebelumnya.

The screenshot shows the WordPress Dashboard interface. At the top, there's a header with the WordPress logo, 'Project web', a notification icon, and a 'New' button. The user 'Howdy, Vultriyen' is logged in. A left sidebar contains navigation links: Dashboard, Home, Updates, Posts, Media, Pages, Comments, Appearance, Plugins, Users, Tools, Settings, and a Collapse menu button. The main content area is titled 'Dashboard' and includes a 'Welcome to WordPress!' message with a 'Dismiss' link. Below this are three sections: 'Get Started' with a 'Customize Your Site' button and a link to 'change your theme completely'; 'Next Steps' with links to 'Write your first blog post', 'Add an About page', 'Set up your homepage', and 'View your site'; and 'More Actions' with links to 'Manage widgets', 'Manage menus', 'Turn comments on or off', and 'Learn more about getting started'. At the bottom, there's a 'Site Health Status' section indicating 'Should be improved' and a 'Quick Draft' section with fields for 'Title' and 'Content'.