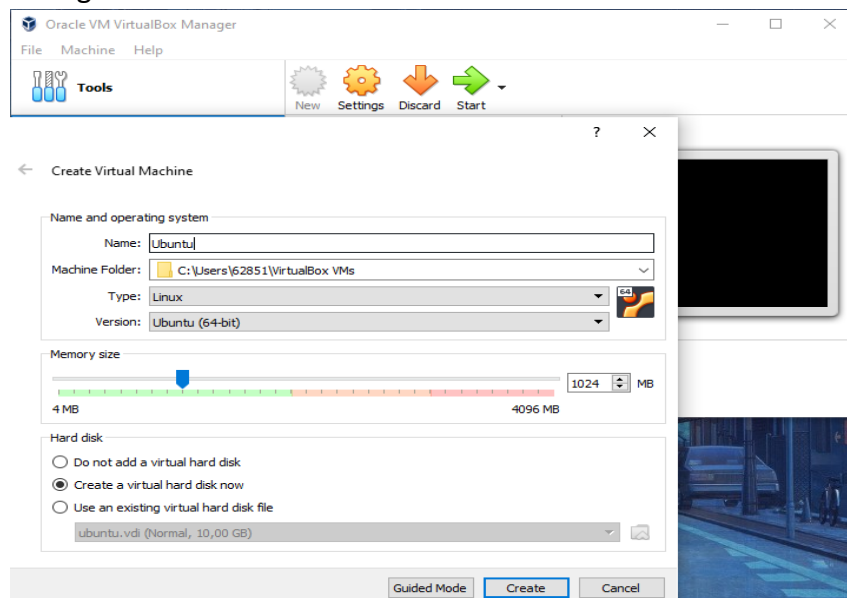


Nama : Muhamad Rahardi Nur
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Mata Kuliah : Pengantar Telekomunikasi
Dosen Pengampu : Adi Hermasnyah, S.Kom, M.T.

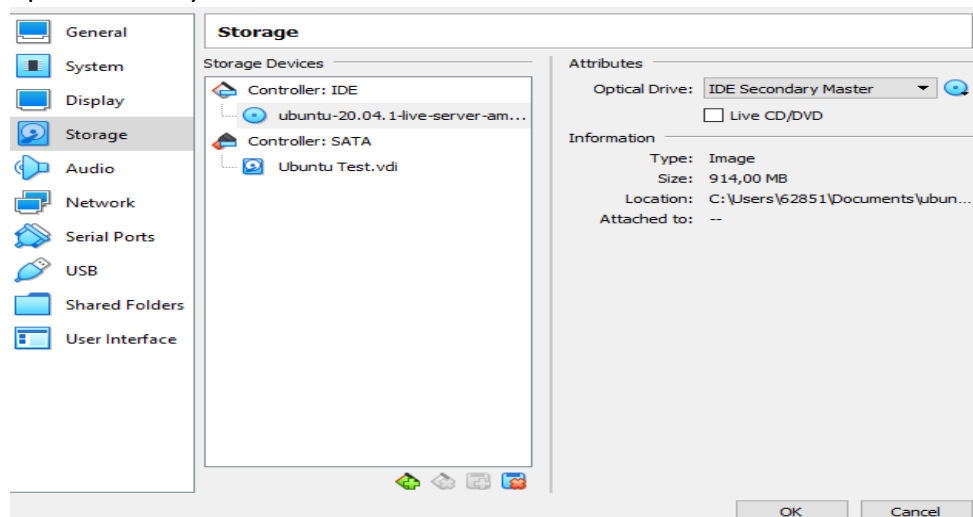
Ubuntu Server with Wordpress

1. Langkah pertama yang harus kita lakukan adalah melakukan instalasi Ubuntu Server terhadap Virtual Box ,lalu :

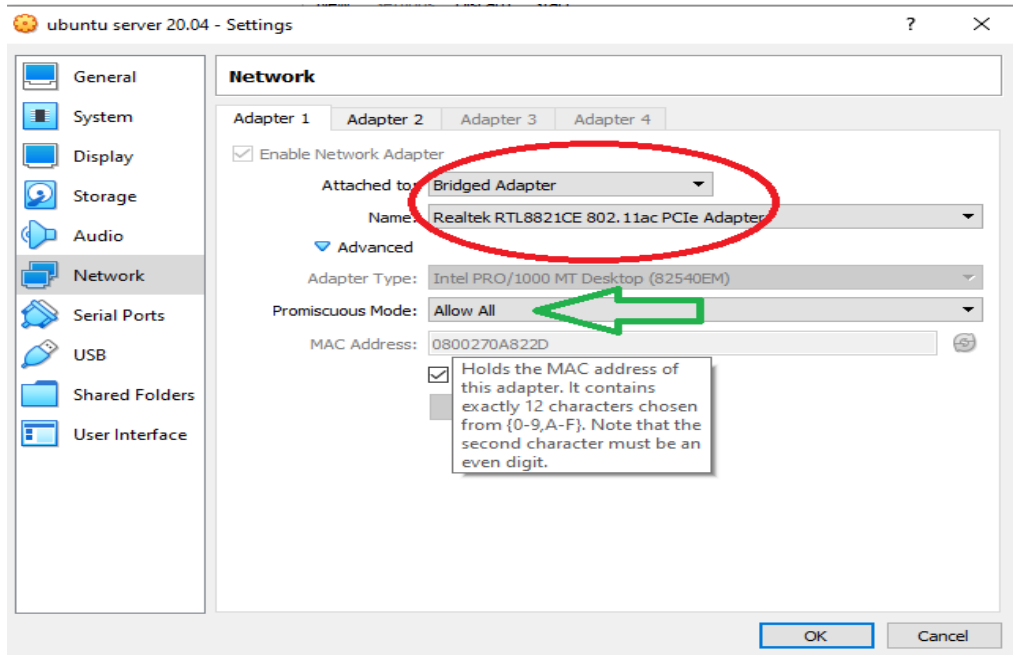
- Klik Icon New untuk membuat Virtual Machine baru yang berisi Ubuntu Server. Lakukan konfigurasi seperti nama machine, RAM, dan virtual storage.lalu create .



- Kemudian klik Settings pada bagian Storage pilih Ubuntu Server sebagai optical drivenya



- Pada menu network bagian adapter 1 ataupun 2 pilih Attached to “Bridged Adapter” dan Name “Realtek RTL8821CE 802.11ac PCIe Adapter” lalu klik advanced dan “Allow All” hal ini dilakukan guna untuk mendapatkan IP dari perangkat yang kita gunakan

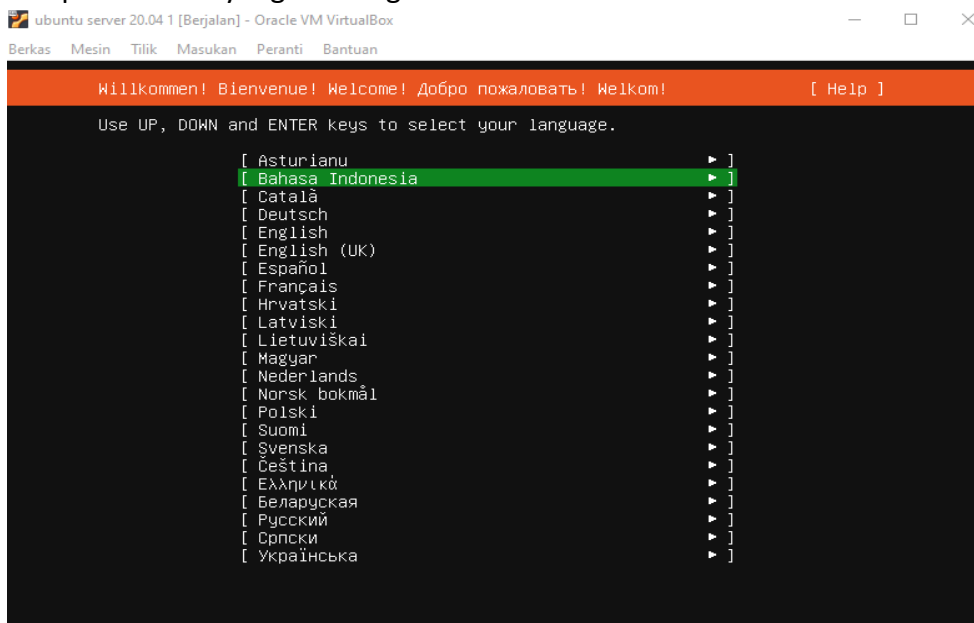


- Lalu tekan Start untuk memulai Ubuntu Servernya

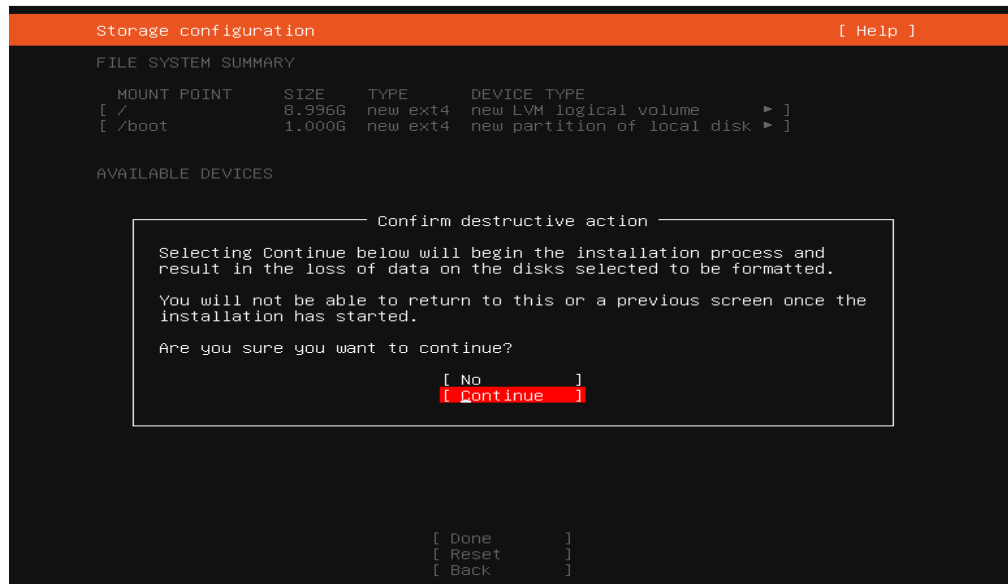


2. Langkah selanjutnya setelah masuk kedalam Ubuntu Server akan melakukan proses instalasi

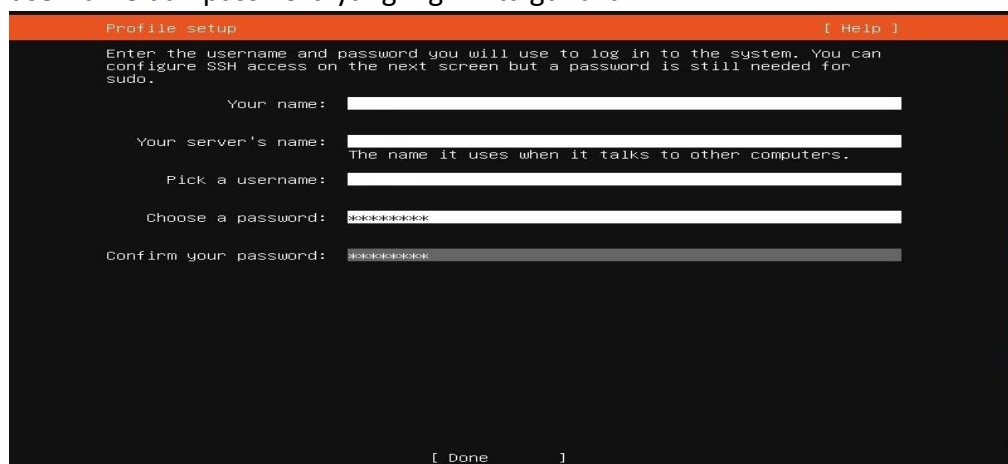
- lalu pilih bahasa yang akan digunakan



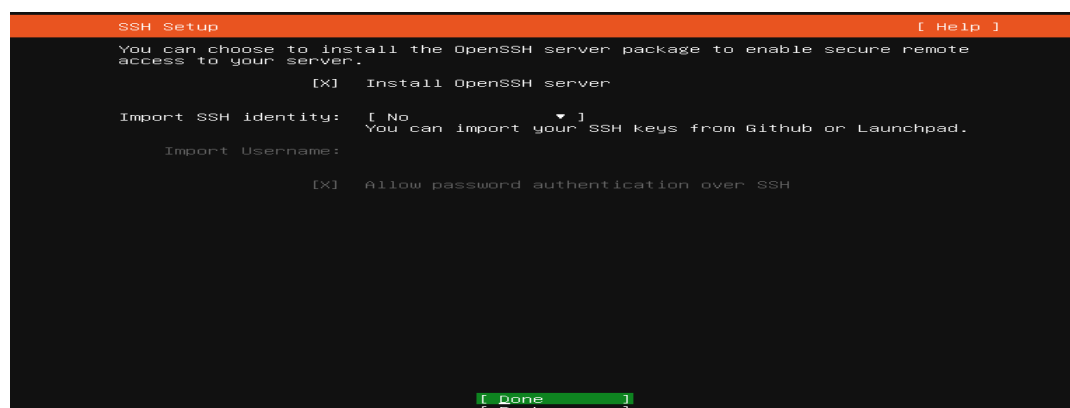
- setelahnya akan disuruh untuk memilih, disini kita cukup dengan pengaturan default dari ubuntu server dan tekan “Done” sampai seterusnya lalu tekan continue.



- Kemudian kita akan diminta untuk mengisi profile setup, isi sesuai dengan username dan password yang ingin kita gunakan



3. Lanjut pada bagian penginstallan beberapa package seperti Install Open SSH server dan yang lainnya disini tunggu saja sampai proses penginstallan selesai



```
Memasang sistem [ Help ]

installing system
curtin command install
preparing for installation
configuring storage
  running 'curtin block-meta simple'
curtin command block-meta
  removing previous storage devices
  configuring disk: disk-sda
  configuring partition: partition-0
  configuring partition: partition-1
  configuring format: format-0
  configuring partition: partition-2
  configuring lvm_volgroup: lvm_volgroup-0
  configuring lvm_partition: lvm_partition-0
  configuring format: format-1
  configuring mount: mount-1
  configuring mount: mount-0
writing install sources to disk
  running 'curtin extract'
curtin command extract
  acquiring and extracting image from cp:///media/filesystem
configuring installed system
  running '/snap/bin/subiquity.subiquity-configure-run'
  running '/snap/bin/subiquity.subiquity-configure-apt'
/snap/subiquity/1966/usr/bin/python3 true'
curtin command apt-config
curtin command in-target |

[ View full log ]
```

- Setelah proses penginstalan package tersebut selesai lakukan reboot untuk memulai awal sistem yang telah terinstall

```
Pemasangan komplit! [ Help ]

Pemasangan berakhir!
/snap/subiquity/1966/usr/bin/python3 true'
curtin command apt-config
curtin command in-target
  running 'curtin curthooks'
curtin command curthooks
  configuring apt configuring apt
  installing missing packages
  configuring iscsi service
  configuring raid (mdadm) service
  installing kernel
  setting up swap
  apply networking config
  writing etc/fstab
  configuring multipath
  updating packages on target system
  configuring pollinate user-agent on target
  updating initramfs configuration
  configuring target system bootloader
  installing grub to target devices
finalizing installation
  running 'curtin hook'
curtin command hook
final system configuration
  configuring cloud-init
  installing openssh-server
  executing late commands
  restoring apt configuration
  downloading and installing security updates \

[ View full log ]
[ Cancel update and reboot ]
```

- Login menggunakan username dan password yang telah dibuat tadi

```
ubuntu server 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Ubuntu 20.04.1 LTS server tty1

server login: [ 61.722830] cloud-init[954]: Cloud-init v. 20.2-45-g5f7825e2-0ubuntu1~20.04.1 running
'modules:config' at Tue, 01 Dec 2020 02:00:56 +0000. Up 61.52 seconds.
[ 63.255002] cloud-init[961]: Cloud-init v. 20.2-45-g5f7825e2-0ubuntu1~20.04.1 running 'modules:fi
nal' at Tue, 01 Dec 2020 02:00:57 +0000. Up 62.99 seconds.
[ 63.255304] cloud-init[961]: Cloud-init v. 20.2-45-g5f7825e2-0ubuntu1~20.04.1 finished at Tue, 01
Dec 2020 02:00:57 +0000. DataSource DataSourceNone. Up 63.24 seconds
[ 63.255849] cloud-init[961]: 2020-12-01 02:00:57.997 - cc_final_message.py[WARNING]: Used fallback
k datasource
server login: rahardi
Password: _
```

6. Lakukan remote VPS pada OS ubuntu ini, untuk itu lakukan update repository agar mempermudah dalam memberikan perintah atau command ketik “\$ sudo apt-get update”.

```
ubuntu server 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
rahardi@server:~$ sudo apt-get update
[sudo] password for rahardi:
Hit:1 http://id.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://id.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:3 http://id.archive.ubuntu.com/ubuntu focal-backports InRelease [101 kB]
Get:4 http://id.archive.ubuntu.com/ubuntu focal-security InRelease [109 kB]
Get:5 http://id.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [683 kB]
Get:6 http://id.archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [698 kB]
Get:7 http://id.archive.ubuntu.com/ubuntu focal-security/main amd64 Packages [380 kB]
Get:8 http://id.archive.ubuntu.com/ubuntu focal-security/main Translation-en [86.6 kB]
Get:9 http://id.archive.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [74.2 kB]
Get:10 http://id.archive.ubuntu.com/ubuntu focal-security/restricted Translation-en [11.9 kB]
Fetched 2,258 kB in 36s (62.8 kB/s)
Reading package lists... Done
rahardi@server:~$
```

7. Kemudian menginstall LAMP stack yaitu beberapa software Open Source yang terdiri dari server Apache, database MySQL atau MariaDB, dan server side scripting PHP

- \$ sudo apt install apache2

```
ubuntu server 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
rahardi@server:~$ sudo apt install apache2 -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
apache2 is already the newest version (2.4.41-4ubuntu3.1).
0 upgraded, 0 newly installed, 0 to remove and 78 not upgraded.
```

- \$ sudo apt install mariadb-server mariadb-client

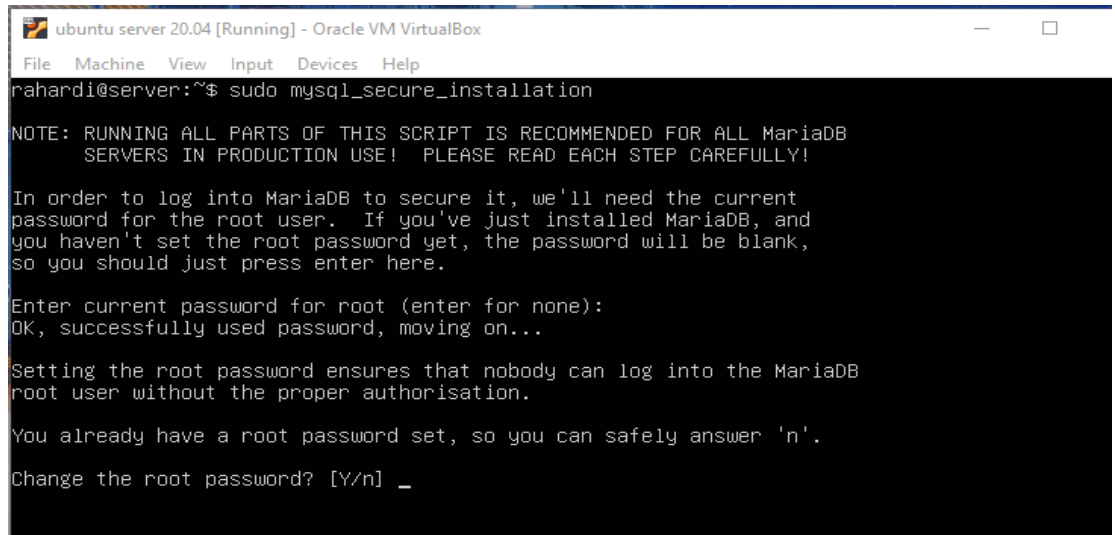
```
ubuntu server 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
rahardi@server:~$ sudo apt install mariadb-server mariadb-client
Reading package lists... Done
Building dependency tree
Reading state information... Done
mariadb-client is already the newest version (1:10.3.25-0ubuntu0.20.04.1).
mariadb-server is already the newest version (1:10.3.25-0ubuntu0.20.04.1).
0 upgraded, 0 newly installed, 0 to remove and 82 not upgraded.
rahardi@server:~$
```

- \$ sudo systemctl status mariadb

```
ubuntu server 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
* mariadb.service - MariaDB 10.3.25 database server
   Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor preset: enabled)
   Active: active (running) since Sun 2020-11-29 03:50:49 UTC; 2min 2s ago
     Docs: man:mysqld(8)
           https://mariadb.com/kb/en/library/systemd/
   Main PID: 5147 (mysqld)
    Status: "Taking your SQL requests now..."
     Tasks: 31 (limit: 1074)
    Memory: 70.1M
   CGroup: /system.slice/mariadb.service
           └─5147 /usr/sbin/mysqld

Nov 29 03:50:50 server /etc/mysql/debian-start[5185]: mysql
Nov 29 03:50:50 server /etc/mysql/debian-start[5185]: performance_schema
Nov 29 03:50:50 server /etc/mysql/debian-start[5185]: Phase 6/7: Checking and upgrading tables
Nov 29 03:50:50 server /etc/mysql/debian-start[5185]: Processing databases
Nov 29 03:50:50 server /etc/mysql/debian-start[5185]: information_schema
Nov 29 03:50:50 server /etc/mysql/debian-start[5185]: performance_schema
Nov 29 03:50:50 server /etc/mysql/debian-start[5185]: Phase 7/7: Running 'FLUSH PRIVILEGES'
Nov 29 03:50:50 server /etc/mysql/debian-start[5185]: OK
Nov 29 03:50:50 server /etc/mysql/debian-start[5252]: Checking for insecure root accounts.
Nov 29 03:50:50 server /etc/mysql/debian-start[5258]: Triggering myisam-recover for all MyISAM tables
~
~
```

- **\$ sudo mysql_secure_installation**



```
ubuntu server 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
rahardi@server:~$ sudo mysql_secure_installation

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
      SERVERS IN PRODUCTION USE!  PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current
password for the root user.  If you've just installed MariaDB, and
you haven't set the root password yet, the password will be blank,
so you should just press enter here.

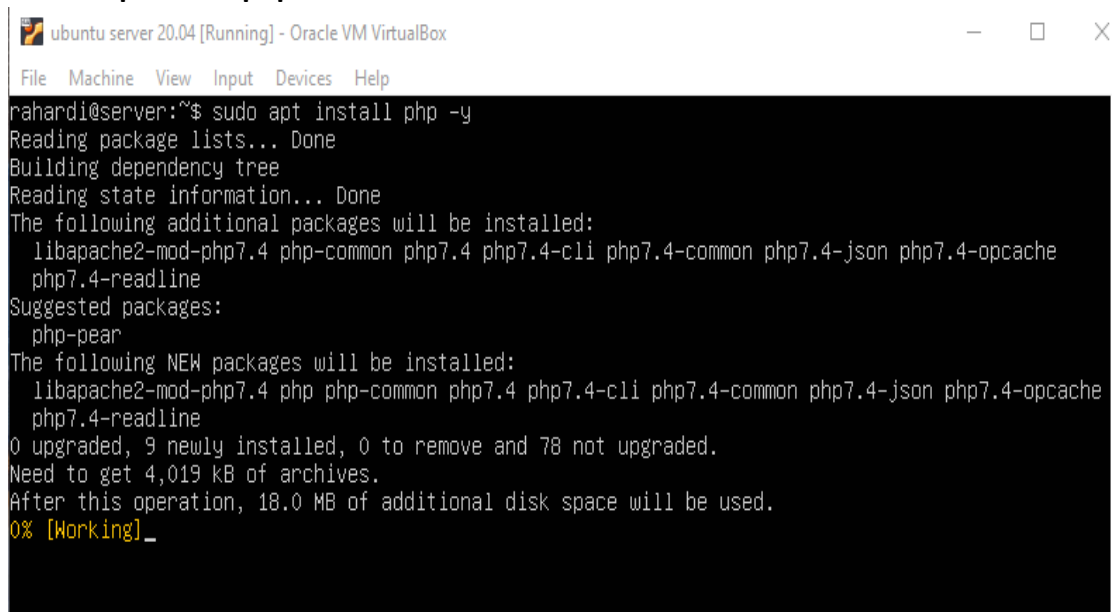
Enter current password for root (enter for none):
OK, successfully used password, moving on...

Setting the root password ensures that nobody can log into the MariaDB
root user without the proper authorisation.

You already have a root password set, so you can safely answer 'n'.

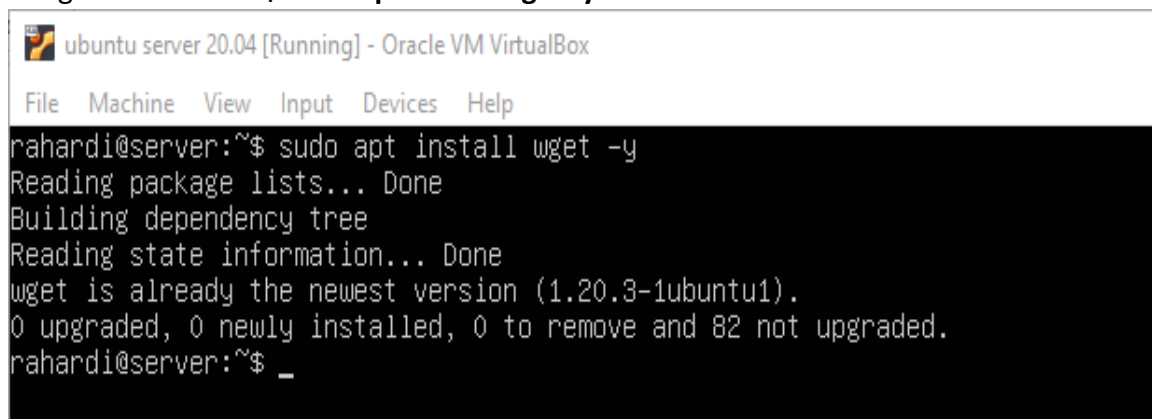
Change the root password? [Y/n] _
```

- **\$ sudo apt install php**



```
ubuntu server 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
rahardi@server:~$ sudo apt install php -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libapache2-mod-php7.4 php-common php7.4 php7.4-cli php7.4-common php7.4-json php7.4-opcache
  php7.4-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php7.4 php php-common php7.4 php7.4-cli php7.4-common php7.4-json php7.4-opcache
  php7.4-readline
0 upgraded, 9 newly installed, 0 to remove and 78 not upgraded.
Need to get 4,019 kB of archives.
After this operation, 18.0 MB of additional disk space will be used.
0% [Working]_
```

8. Download file wordpress yang akan digunakan sebelum itu lakukan instalasi wget dengan command **"\$ sudo apt install wget -y"**



```
ubuntu server 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
rahardi@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).
0 upgraded, 0 newly installed, 0 to remove and 82 not upgraded.
rahardi@server:~$ _
```

9. Untuk file wordpress yang akan didownload bisa kita gunakan <https://wordpress.org/latest.zip> , lalu kita download melalui wget “\$ wget https://wordpress.org/latest.zip”

```
ubuntu server 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
rahardi@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 78 not upgraded.
rahardi@server:~$ wget https://id.wordpress.org/latest-id_ID.zip
--2020-11-29 04:20:49-- https://id.wordpress.org/latest-id_ID.zip
Resolving id.wordpress.org (id.wordpress.org)... 198.143.164.252
Connecting to id.wordpress.org (id.wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 14693464 (14M) [application/zip]
Saving to: 'latest-id_ID.zip'

latest-id_ID.zip          3%[>] 535.60K 106KB/s eta 2m 6s
```

- Cek file wordpress yang sudah didownload tadi “\$ ls”

```
ubuntu server 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
rahardi@server:~$ ls
clear latest-id_ID.zip latest-id_ID.zip.1 latest.zip
rahardi@server:~$ _
```

10. Setelah itu Unzip file yang sudah didownload tadi (latest.zip)

- \$ sudo apt install unzip -y

```
rahardi@server:~$ sudo apt install unzip -y
[sudo] password for rahardi:
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 78 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 9s (19.5 kB/s)
Selecting previously unselected package unzip.
(Reading database ... 72638 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) ...
rahardi@server:~$ _
```

- \$ unzip latest.zip

```
ubuntu server 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
inflating: wordpress/wp-admin/js/gallery.js
inflating: wordpress/wp-admin/js/word-count.js
inflating: wordpress/wp-admin/js/accordion.min.js
inflating: wordpress/wp-admin/js/inline-edit-post.min.js
inflating: wordpress/wp-admin/js/customize-widgets.min.js
inflating: wordpress/wp-admin/js/inline-edit-post.js
inflating: wordpress/wp-admin/js/updates.js
inflating: wordpress/wp-admin/js/media-upload.js
inflating: wordpress/wp-admin/js/media.js
inflating: wordpress/wp-admin/js/editor-expand.min.js
inflating: wordpress/wp-admin/js/media-gallery.min.js
inflating: wordpress/wp-admin/js/common.min.js
inflating: wordpress/wp-admin/js/tags-box.min.js
inflating: wordpress/wp-admin/js/svg-painter.min.js
inflating: wordpress/wp-admin/js/custom-background.js
inflating: wordpress/wp-admin/js/color-picker.min.js
inflating: wordpress/wp-admin/js/code-editor.js
inflating: wordpress/wp-admin/js/common.js
inflating: wordpress/wp-admin/js/set-post-thumbnail.min.js
inflating: wordpress/wp-admin/js/postbox.min.js
inflating: wordpress/wp-admin/js/color-picker.js
inflating: wordpress/wp-admin/js/password-strength-meter.js
inflating: wordpress/wp-admin/js/customize-nav-menus.js
inflating: wordpress/wp-admin/js/editor-expand.js
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
rahardi@server:~$ _
```

11. Kemudian setelah di unzip wordpress tadi ,buka direktori wordpressnya

- \$ cd wordpress

```
rahardi@server:~$ ls
clear latest-id_ID.zip latest-id_ID.zip.1 latest.zip wordpress
rahardi@server:~$ cd wordpress/
rahardi@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
rahardi@server:~/wordpress$ _
```

- \$ cd /var/www/html/

```
rahardi@server:~/wordpress$ cd /var /www/html
-bash: cd: too many arguments
rahardi@server:~/wordpress$ cd /var/www/html/
rahardi@server:/var/www/html$ sudo rm -rf index.html
rahardi@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
rahardi@server:/var/www/html$
```

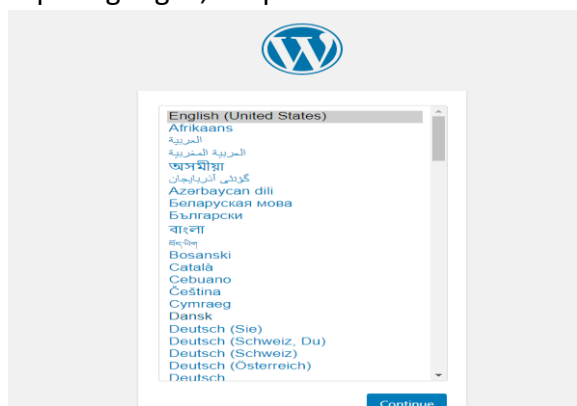
- \$ sudo apt install php-mysql php-cgi php-cli php-gd -y

```
rahardi@server:/var/www/html$ sudo apt install php-mysql php-cgi php-cli php-gd -y
[sudo] password for rahardi:
Reading package lists... Done
Building dependency tree
Reading state information... Done
php-cgi is already the newest version (2:7.4+75).
php-cli is already the newest version (2:7.4+75).
php-gd is already the newest version (2:7.4+75).
php-mysql is already the newest version (2:7.4+75).
0 upgraded, 0 newly installed, 0 to remove and 82 not upgraded.
rahardi@server:/var/www/html$ _
```

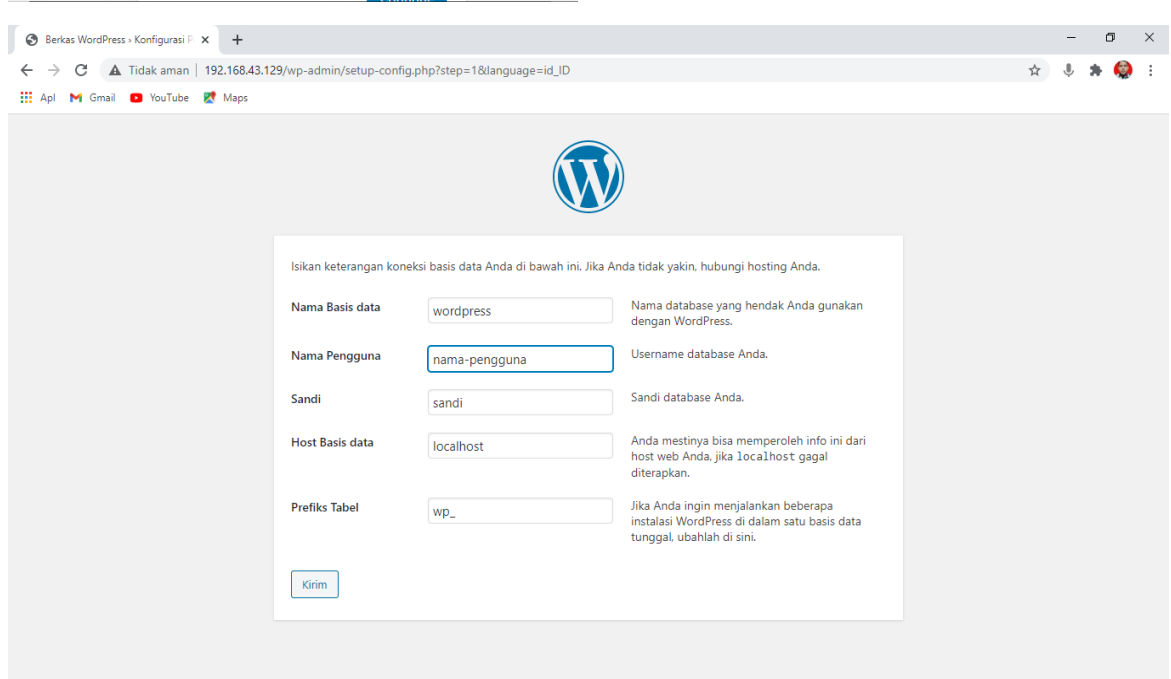

12. Selanjutnya beralih ke web browser seperti (Chrome,Mozilla,Opera atau yang lainnya) tetapi sebelum itu cek dulu alamat IP dari perangkat yang digunakan dengan command “\$ ip address”

```
ubuntu server 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
rahardi@server:/var/www/html$ ip address
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> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether 08:00:27:0a:82:2d brd ff:ff:ff:ff:ff:ff
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:74:e2:0a brd ff:ff:ff:ff:ff:ff
    inet 192.168.43.129/24 brd 192.168.43.255 scope global dynamic enp0s8
        valid_lft 3597sec preferred_lft 3597sec
    inet6 fe80::a00:27ff:fe74:e20a/64 scope link
        valid_lft forever preferred_lft forever
rahardi@server:/var/www/html$ _
```

13. Gunakan IP tersebut yaitu 192.168.43.129 pada mesin pencarian/web browser seperti google ,lalu pilih bahasa klik continue lalu isi database yang ada disana.



The screenshot shows the WordPress language selection screen. A dropdown menu is open, displaying a list of languages including English (United States), Afrikaans, العربية المشرقية, Azərbaycan dili, Беларуская мова, Български, বাংলা, Босански, Català, Cebuano, Čeština, Cymraeg, Dansk, Deutsch (Sie), Deutsch (Schweiz, Du), Deutsch (Schweiz), Deutsch (Österreich), and Deutsch. A 'Continue' button is visible at the bottom right of the language list.



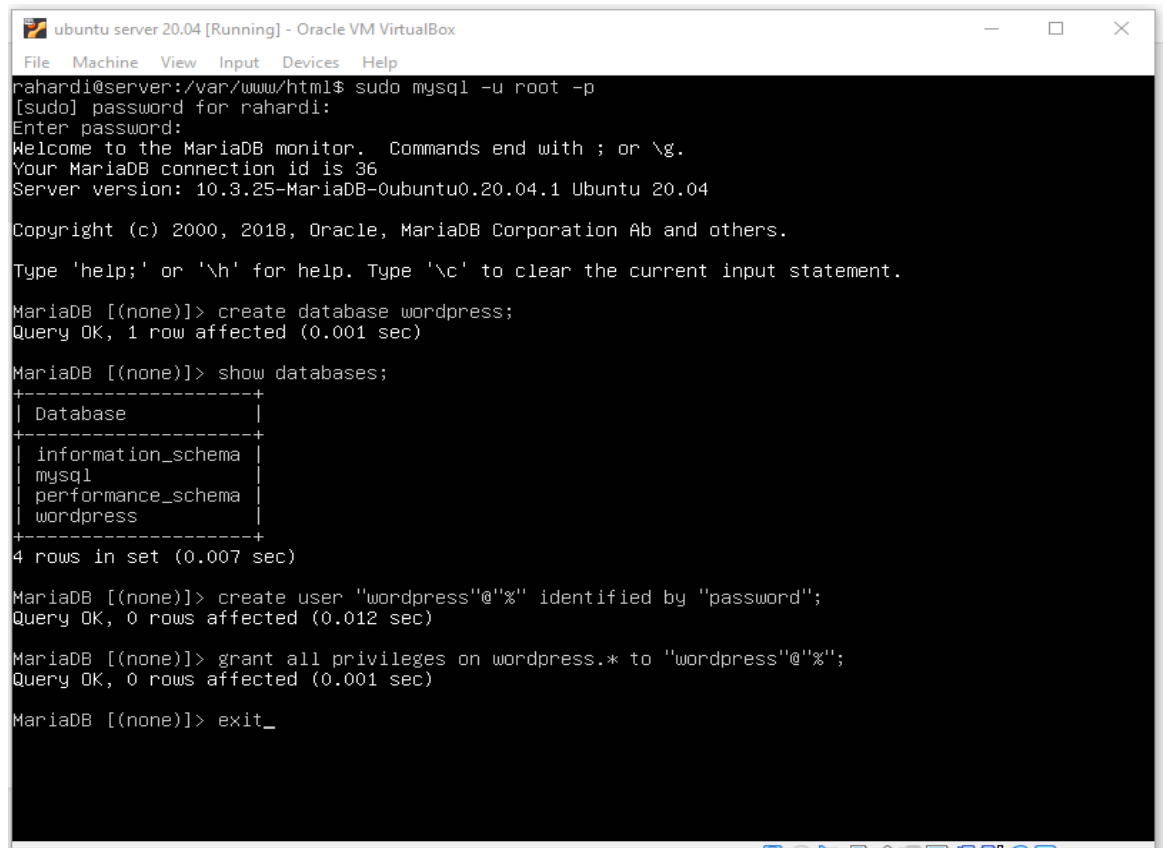
The screenshot shows the WordPress database configuration screen. The URL bar indicates the page is '192.168.43.129/wp-admin/setup-config.php?step=1&language=id_ID'. The page contains a form with the following fields and values:

Field	Value	Notes
Nama Basis data	wordpress	Nama database yang hendak Anda gunakan dengan WordPress.
Nama Pengguna	nama-pengguna	Username database Anda.
Sandi	sandi	Sandi database Anda.
Host Basis data	localhost	Anda mestinya bisa memperoleh info ini dari host web Anda, jika localhost gagal diterapkan.
Prefiks Tabel	wp_	Jika Anda ingin menjalankan beberapa instalasi WordPress di dalam satu basis data tunggal, ubahlah di sini.

A 'Kirim' button is located at the bottom left of the form.

14. Kemudian kembali ke Ubuntu Server untuk membuat database dari wordpress yang tadi

- **\$ sudo mysql -u root -p**
 - create database wordpress;
 - show database;
 - create user "wordpress"@"%";
 - grant all privileges on wordpress.* to "wordpress"@"%";



```
ubuntu server 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
rahardi@server:/var/www/html$ sudo mysql -u root -p
[sudo] password for rahardi:
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 36
Server version: 10.3.25-MariaDB-0ubuntu0.20.04.1 Ubuntu 20.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> create database wordpress;
Query OK, 1 row affected (0.001 sec)

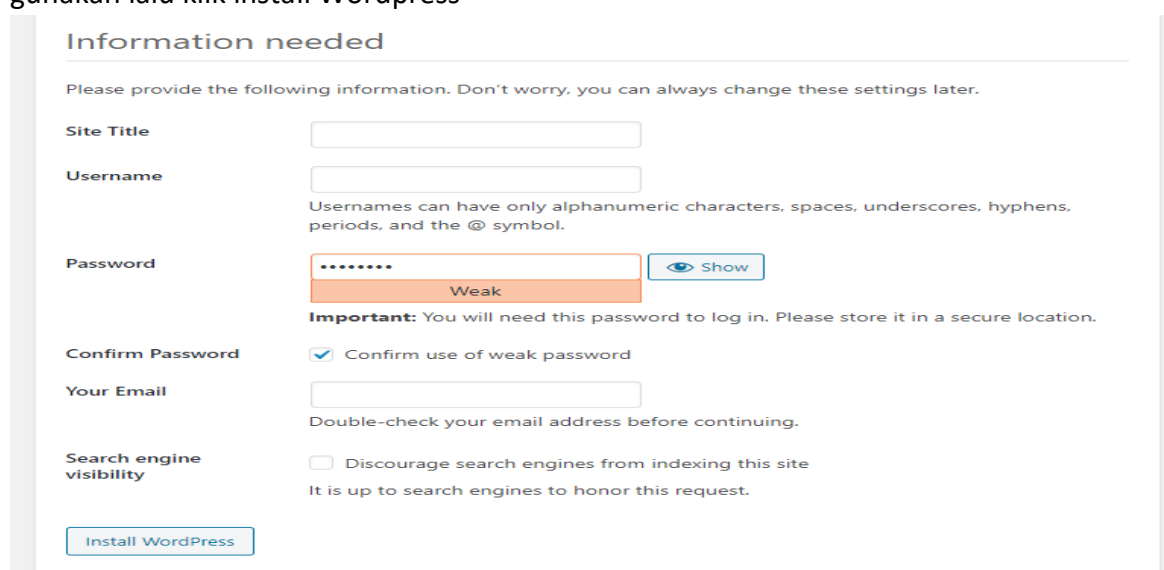
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| wordpress |
+-----+
4 rows in set (0.007 sec)

MariaDB [(none)]> create user "wordpress"@"%" identified by "password";
Query OK, 0 rows affected (0.012 sec)

MariaDB [(none)]> grant all privileges on wordpress.* to "wordpress"@"%";
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> exit_
```

15. Kembali ke web browser, lalu isi data yang tersedia sesuai dengan yang ingin kita gunakan lalu klik install Wordpress



Information needed

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

Site Title

Username
Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

Password
Weak

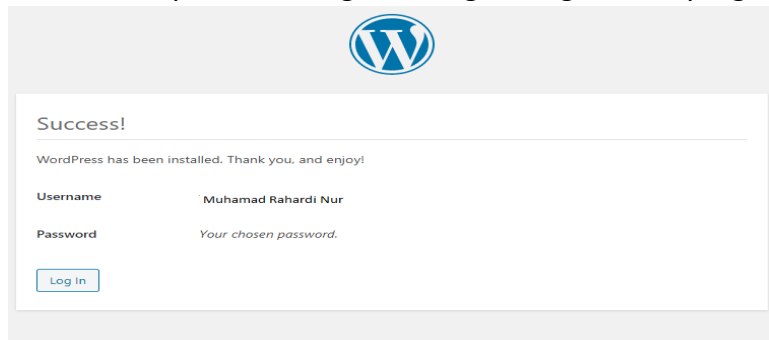
Important: You will need this password to log in. Please store it in a secure location.

Confirm Password ☒ Confirm use of weak password

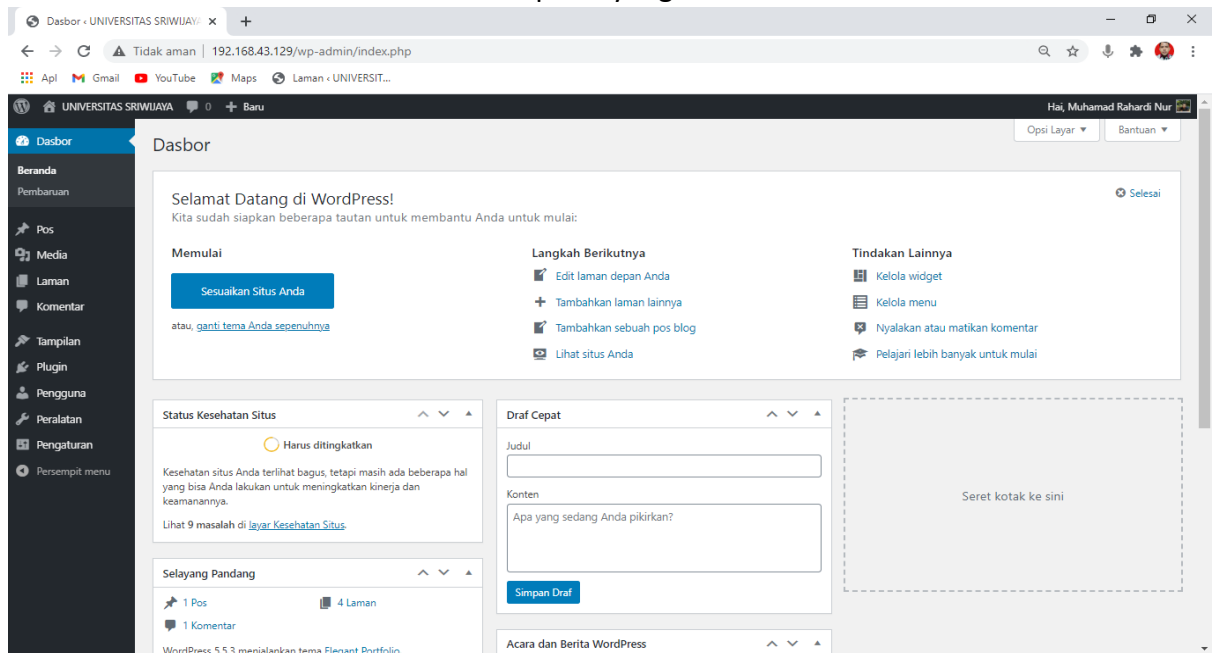
Your Email
Double-check your email address before continuing.

Search engine visibility ☐ Discourage search engines from indexing this site
It is up to search engines to honor this request.

16. Setelah menyelesaikan registrasi login dengan akun yang telah dibuat tadi



17. Halaman awal atau dashboard dari wordpress yang telah dibuat



18. Wordpress selesai dibuat

