



## **LEMBAR KERJA PRAKTIKUM CLOUD COMPUTING**

### **INSTALASI DAN KONFIGURASI LAYANAN HOSTING DENGAN LAMPP (SAAS)**

#### **IDENTITAS:**

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Hari, Tanggal:	<b>19 Februari 2020</b>

#### **CONTOH ISIAN:**

1. Tampilkan hasil login pada Ubuntu Server dengan menggunakan PuTTY

```
root@eternal-loops: ~
login as: root
root@45.76.145.117's password:
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-45-generic x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage

System information as of Mon Feb 17 21:56:08 WIB 2020

System load:  0.0               Processes:            146
Usage of /:   84.9% of 19.63GB   Users logged in:     1
Memory usage: 78%               IP address for ens3: 45.76.145.117
Swap usage:   33%

* Multipass 1.0 is out! Get Ubuntu VMs on demand on your Linux, Windows or
  Mac. Supports cloud-init for fast, local, cloud devops simulation.

  https://multipass.run/

* Canonical Livepatch is available for installation.
  - Reduce system reboots and improve kernel security. Activate at:
    https://ubuntu.com/livepatch

187 packages can be updated.
141 updates are security updates.

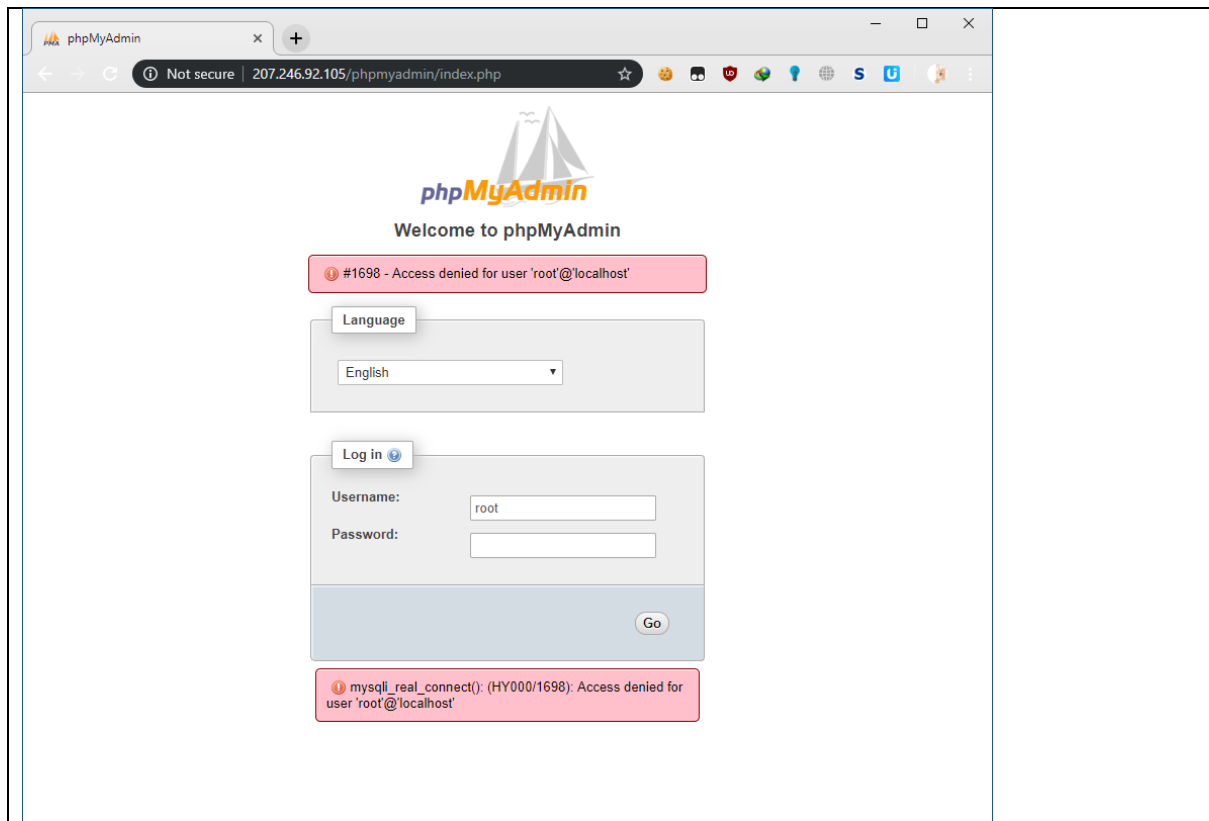
*** System restart required ***
Last login: Sun Feb  2 19:18:13 2020 from 180.254.121.187
root@eternal-loops:~#
```

2. Deskripsikan parameter yang digunakan untuk keluar dari akun root

```
$ exit
```

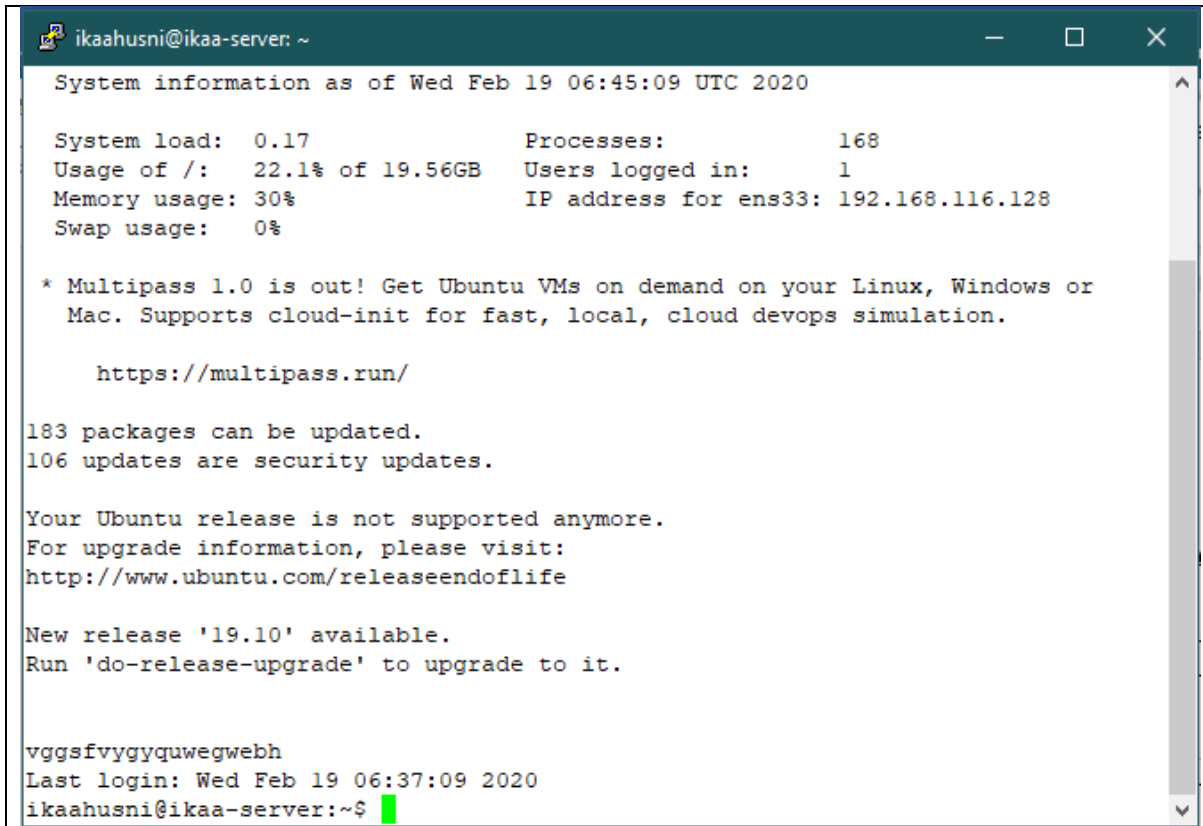
Perintah exit digunakan untuk keluar dari sesi akun aktif

### 3. Tampilkan pesan kesalahan pada saat login PHPMyAdmin



## **TUGAS BAGIAN PERTAMA:**

1. Tampilan hasil login Server Ubuntu pada PuTTY (tampilan dashboard/motd)



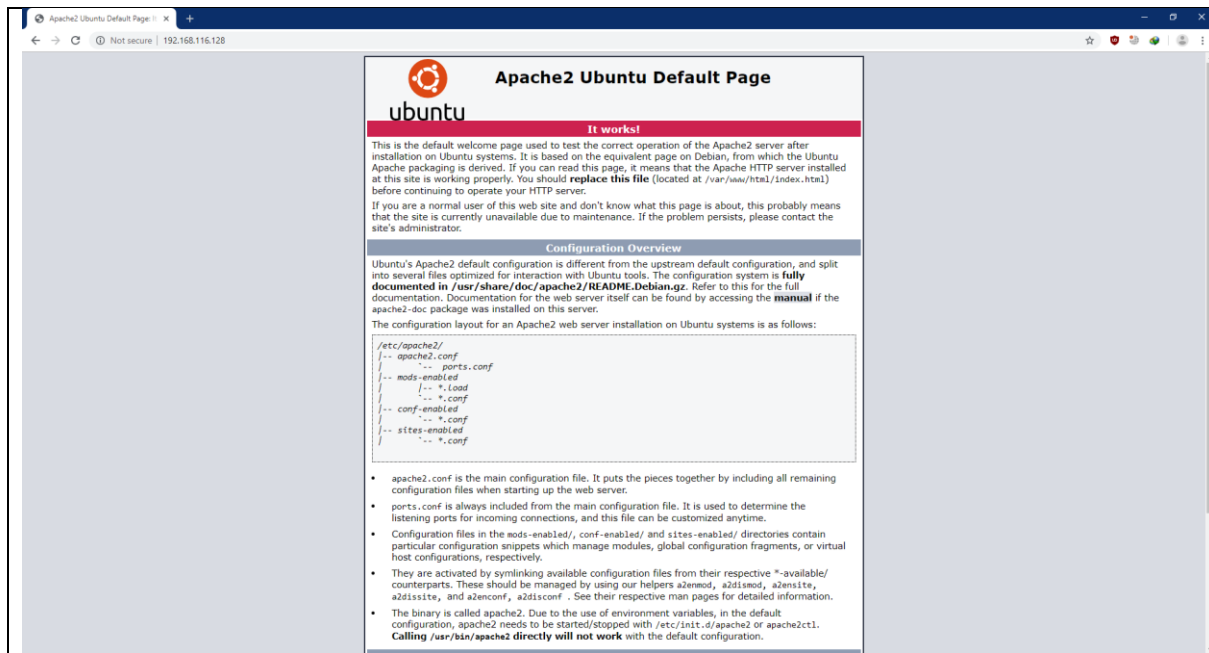
```
ikaahusni@ikaa-server: ~  
System information as of Wed Feb 19 06:45:09 UTC 2020  
  
System load:  0.17          Processes:          168  
Usage of /:   22.1% of 19.56GB  Users logged in:   1  
Memory usage: 30%          IP address for ens33: 192.168.116.128  
Swap usage:   0%  
  
* Multipass 1.0 is out! Get Ubuntu VMs on demand on your Linux, Windows or  
  Mac. Supports cloud-init for fast, local, cloud devops simulation.  
  
  https://multipass.run/  
  
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.  
  
vggsfvygyquwegwebh  
Last login: Wed Feb 19 06:37:09 2020  
ikaahusni@ikaa-server:~$
```

2. Deskripsikan parameter atau cara untuk mendapatkan IP dari Server Ubuntu

```
$ ifconfig
```

Perintah if config digunakan untuk melihat IP saat login

3. Tampilkan hasil instalasi Apache (Ubuntu Default Page) pada browser (perlihatkan juga address bar pada browser)



#### 4. Tampilkan proses instalasi MySQL

- Lakukan proses pembaruan package di Ubuntu dilanjutkan dengan instalasi package apache2 sebagaimana sintak perintah dan gambar berikut ini :

```
ikaahusni@ikaa-server: ~
Rules updated (v6)
ikaahusni@ikaa-server:~$ ^C
ikaahusni@ikaa-server:~$ ^C
ikaahusni@ikaa-server:~$ sudo apt install mysql-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libaiol libcgi-fast-perl libcgi-pm-perl libencode-locale-perl
  libevent-core-2.1-6 libfcgi-perl libhtml-parser-perl libhtml-tagset-perl
  libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl
  liblwp-mediatypes-perl libtimedate-perl liburi-perl mysql-client-5.7
  mysql-client-core-5.7 mysql-common mysql-server-5.7 mysql-server-core-5.7
Suggested packages:
  libdata-dump-perl libipc-sharedcache-perl libwww-perl mailx tinyca
The following NEW packages will be installed:
  libaiol libcgi-fast-perl libcgi-pm-perl libencode-locale-perl
  libevent-core-2.1-6 libfcgi-perl libhtml-parser-perl libhtml-tagset-perl
  libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl
  liblwp-mediatypes-perl libtimedate-perl liburi-perl mysql-client-5.7
  mysql-client-core-5.7 mysql-common mysql-server mysql-server-5.7
  mysql-server-core-5.7
0 upgraded, 21 newly installed, 0 to remove and 94 not upgraded.
Need to get 21.2 MB of archives.
After this operation, 161 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

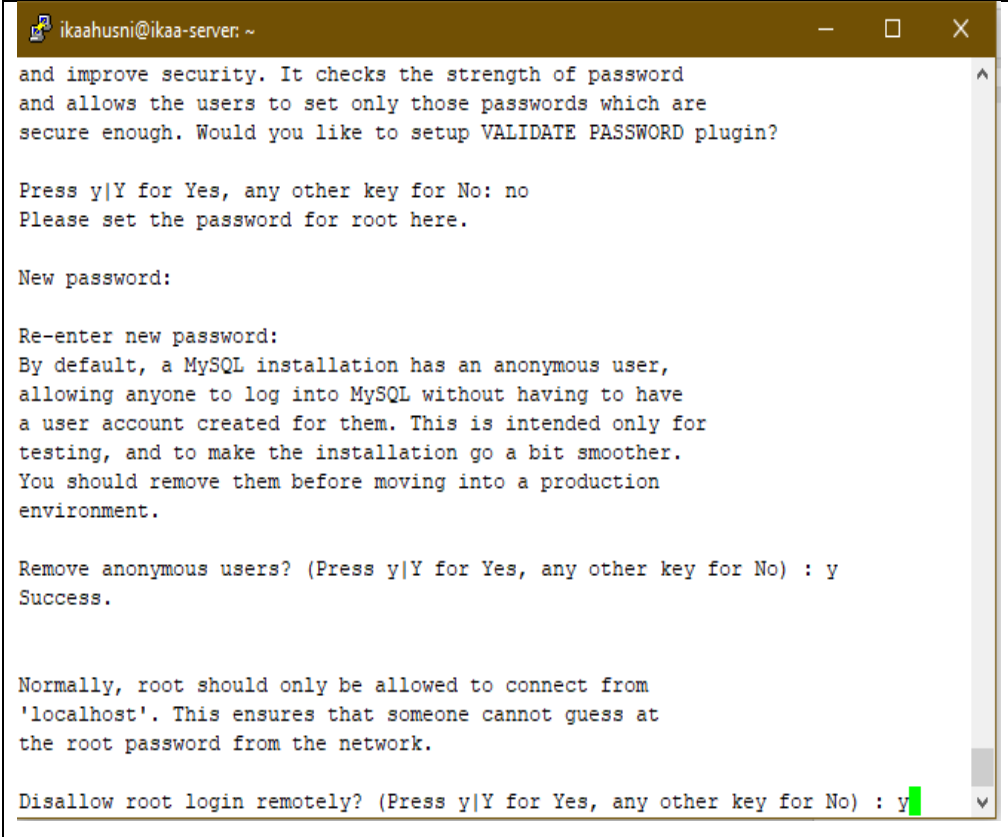
- Wizard akan dimulai dengan menanyakan perihal validasi penggunaan kata sandi pada MySQL apakah kata sandi yang digunakan harus menggunakan kombinasi yang kuat atau tidak.

```
ikaahusni@ikaa-server: ~  
Setting up libhtml-template-perl (2.97-1) ...  
Setting up mysql-server-core-5.7 (5.7.26-0ubuntu0.18.10.1) ...  
Setting up libcgi-fast-perl (1:2.13-1) ...  
Setting up libhttp-message-perl (6.18-1) ...  
Setting up mysql-client-5.7 (5.7.26-0ubuntu0.18.10.1) ...  
Setting up mysql-server-5.7 (5.7.26-0ubuntu0.18.10.1) ...  
update-alternatives: using /etc/mysql/mysql.cnf to provide /etc/mysql/my.cnf (my  
.cnf) in auto mode  
Renaming removed key_buffer and myisam-recover options (if present)  
Created symlink /etc/systemd/system/multi-user.target.wants/mysql.service -> /lib  
/systemd/system/mysql.service.  
Setting up mysql-server (5.7.26-0ubuntu0.18.10.1) ...  
Processing triggers for libc-bin (2.28-0ubuntu1) ...  
Processing triggers for systemd (239-7ubuntu0.12) ...  
ikaahusni@ikaa-server:~$ sudo mysql_secure_installation  
  
Securing the MySQL server deployment.  
  
Connecting to MySQL using a blank password.  
  
VALIDATE PASSWORD PLUGIN can be used to test passwords  
and improve security. It checks the strength of password  
and allows the users to set only those passwords which are  
secure enough. Would you like to setup VALIDATE PASSWORD plugin?  
  
Press y|Y for Yes, any other key for No: no
```

- Dilanjutkan dengan proses pengaturan kata sandi untuk akun root pada MySQL.

```
ikaahusni@ikaa-server: ~  
Processing triggers for systemd (239-7ubuntu0.12) ...  
ikaahusni@ikaa-server:~$ sudo mysql_secure_installation  
  
Securing the MySQL server deployment.  
  
Connecting to MySQL using a blank password.  
  
VALIDATE PASSWORD PLUGIN can be used to test passwords  
and improve security. It checks the strength of password  
and allows the users to set only those passwords which are  
secure enough. Would you like to setup VALIDATE PASSWORD plugin?  
  
Press y|Y for Yes, any other key for No: no  
Please set the password for root here.  
  
New password:  
  
Re-enter new password:  
By default, a MySQL installation has an anonymous user,  
allowing anyone to log into MySQL without having to have  
a user account created for them. This is intended only for  
testing, and to make the installation go a bit smoother.  
You should remove them before moving into a production  
environment.  
  
Remove anonymous users? (Press y|Y for Yes, any other key for No) :
```

- Kemudian dilanjutkan peringatan mengenai Remote Login ke basis data MySQL dari luar jaringan localhost, misal dari workstation.

A terminal window titled 'ikaahusni@ikaa-server: ~' with standard window controls. It displays the MySQL installation process. The text shown is: 'and improve security. It checks the strength of password and allows the users to set only those passwords which are secure enough. Would you like to setup VALIDATE PASSWORD plugin?'. Below this, it asks to 'Press y|Y for Yes, any other key for No: no' and 'Please set the password for root here.'. It then prompts for a 'New password:' and 'Re-enter new password:'. A warning follows: 'By default, a MySQL installation has an anonymous user, allowing anyone to log into MySQL without having to have a user account created for them. This is intended only for testing, and to make the installation go a bit smoother. You should remove them before moving into a production environment.'. It then asks 'Remove anonymous users? (Press y|Y for Yes, any other key for No) : y' and shows 'Success.'. Another warning states: 'Normally, root should only be allowed to connect from 'localhost'. This ensures that someone cannot guess at the root password from the network.'. Finally, it asks 'Disallow root login remotely? (Press y|Y for Yes, any other key for No) : y' with a green cursor at the end.

```
ikaahusni@ikaa-server: ~
and improve security. It checks the strength of password
and allows the users to set only those passwords which are
secure enough. Would you like to setup VALIDATE PASSWORD plugin?

Press y|Y for Yes, any other key for No: no
Please set the password for root here.

New password:

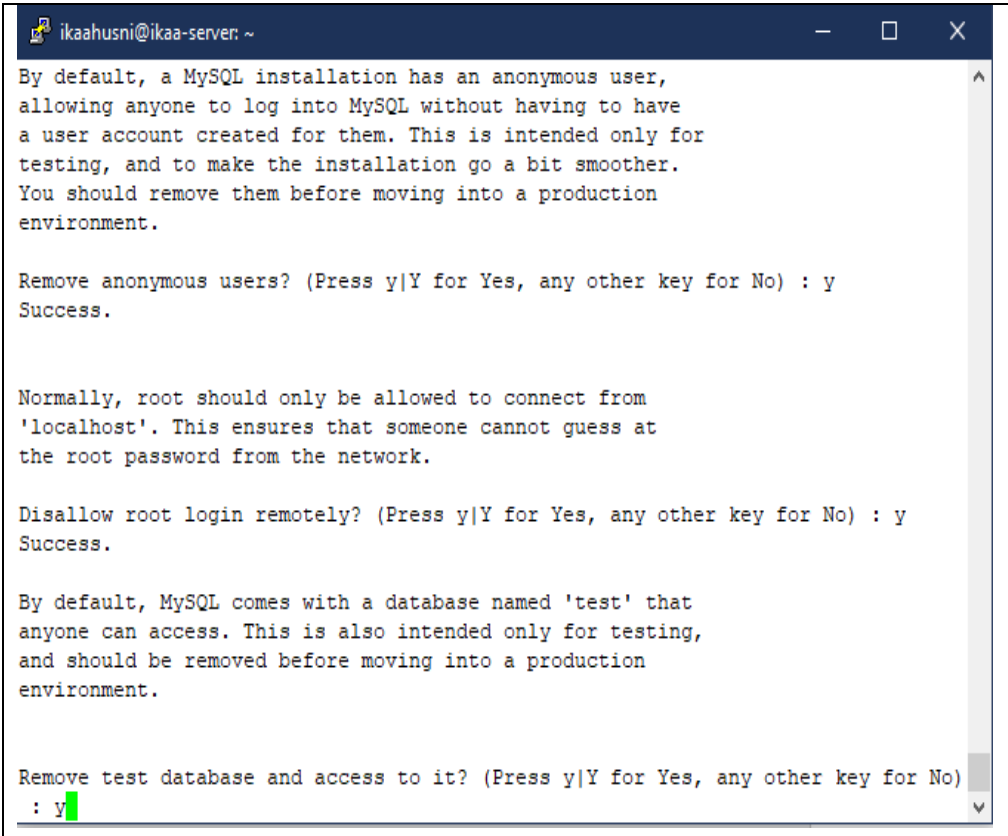
Re-enter new password:
By default, a MySQL installation has an anonymous user,
allowing anyone to log into MySQL without having to have
a user account created for them. This is intended only for
testing, and to make the installation go a bit smoother.
You should remove them before moving into a production
environment.

Remove anonymous users? (Press y|Y for Yes, any other key for No) : y
Success.

Normally, root should only be allowed to connect from
'localhost'. This ensures that someone cannot guess at
the root password from the network.

Disallow root login remotely? (Press y|Y for Yes, any other key for No) : y
```

- Tahap berikutnya adalah peringatan mengenai database dengan nama test yang secara default terpasang pada MySQL.

A terminal window titled 'ikaahusni@ikaa-server: ~' with standard window controls. It continues the MySQL installation process. The text shown is: 'By default, a MySQL installation has an anonymous user, allowing anyone to log into MySQL without having to have a user account created for them. This is intended only for testing, and to make the installation go a bit smoother. You should remove them before moving into a production environment.'. It then asks 'Remove anonymous users? (Press y|Y for Yes, any other key for No) : y' and shows 'Success.'. Another warning states: 'Normally, root should only be allowed to connect from 'localhost'. This ensures that someone cannot guess at the root password from the network.'. It then asks 'Disallow root login remotely? (Press y|Y for Yes, any other key for No) : y' and shows 'Success.'. A new warning follows: 'By default, MySQL comes with a database named 'test' that anyone can access. This is also intended only for testing, and should be removed before moving into a production environment.'. Finally, it asks 'Remove test database and access to it? (Press y|Y for Yes, any other key for No) : y' with a green cursor at the end.

```
ikaahusni@ikaa-server: ~
By default, a MySQL installation has an anonymous user,
allowing anyone to log into MySQL without having to have
a user account created for them. This is intended only for
testing, and to make the installation go a bit smoother.
You should remove them before moving into a production
environment.

Remove anonymous users? (Press y|Y for Yes, any other key for No) : y
Success.

Normally, root should only be allowed to connect from
'localhost'. This ensures that someone cannot guess at
the root password from the network.

Disallow root login remotely? (Press y|Y for Yes, any other key for No) : y
Success.

By default, MySQL comes with a database named 'test' that
anyone can access. This is also intended only for testing,
and should be removed before moving into a production
environment.

Remove test database and access to it? (Press y|Y for Yes, any other key for No) : y
```

- Tahap terakhir adalah proses dari refresh/reload tabel privilege atau hak akses dari MySQL.

```
ikaahusni@ikaa-server: ~  
  
Normally, root should only be allowed to connect from  
'localhost'. This ensures that someone cannot guess at  
the root password from the network.  
  
Disallow root login remotely? (Press y|Y for Yes, any other key for No) : y  
Success.  
  
By default, MySQL comes with a database named 'test' that  
anyone can access. This is also intended only for testing,  
and should be removed before moving into a production  
environment.  
  
Remove test database and access to it? (Press y|Y for Yes, any other key for No)  
: y  
- Dropping test database...  
Success.  
  
- Removing privileges on test database...  
Success.  
  
Reloading the privilege tables will ensure that all changes  
made so far will take effect immediately.  
  
Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y
```

- Hasil akhir dari tahap wizard tersebut adalah informasi "All done!" yang menandakan proses akhir dari wizard pengaturan MySQL.

```
ikaahusni@ikaa-server: ~  
  
Disallow root login remotely? (Press y|Y for Yes, any other key for No) : y  
Success.  
  
By default, MySQL comes with a database named 'test' that  
anyone can access. This is also intended only for testing,  
and should be removed before moving into a production  
environment.  
  
Remove test database and access to it? (Press y|Y for Yes, any other key for No)  
: y  
- Dropping test database...  
Success.  
  
- Removing privileges on test database...  
Success.  
  
Reloading the privilege tables will ensure that all changes  
made so far will take effect immediately.  
  
Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y  
Success.  
  
All done!  
ikaahusni@ikaa-server:~$
```

5. Tampilkan keberhasilan instalasi PHP dengan cara menampilkan info.php pada browser



PHP Version 7.2.19-0ubuntu0.18.10.1

System	Linux ikaa-server 4.18.0-25-generic #25-Ubuntu SMP Mon Jun 24 09:32:08 UTC 2019 x86_64
Build Date	Jun 4 2019 14:46:43
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/7.2/apache2
Loaded Configuration File	/etc/php/7.2/apache2/php.ini
Scan this dir for additional .ini files	/etc/php/7.2/apache2/conf.d
Additional .ini files parsed	/etc/php/7.2/apache2/conf.d/10-mysqlnd.ini, /etc/php/7.2/apache2/conf.d/10-apache.ini, /etc/php/7.2/apache2/conf.d/10-pdo.ini, /etc/php/7.2/apache2/conf.d/20-calendar.ini, /etc/php/7.2/apache2/conf.d/20-curl.ini, /etc/php/7.2/apache2/conf.d/20-ctype.ini, /etc/php/7.2/apache2/conf.d/20-exif.ini, /etc/php/7.2/apache2/conf.d/20-fileinfo.ini, /etc/php/7.2/apache2/conf.d/20-ftp.ini, /etc/php/7.2/apache2/conf.d/20-gettext.ini, /etc/php/7.2/apache2/conf.d/20-iconv.ini, /etc/php/7.2/apache2/conf.d/20-imagick.ini, /etc/php/7.2/apache2/conf.d/20-imagick.ini, /etc/php/7.2/apache2/conf.d/20-ldap.ini, /etc/php/7.2/apache2/conf.d/20-ldap.ini, /etc/php/7.2/apache2/conf.d/20-mbstring.ini, /etc/php/7.2/apache2/conf.d/20-mcrypt.ini, /etc/php/7.2/apache2/conf.d/20-mysql.ini, /etc/php/7.2/apache2/conf.d/20-pdo_mysql.ini, /etc/php/7.2/apache2/conf.d/20-phar.ini, /etc/php/7.2/apache2/conf.d/20-posix.ini, /etc/php/7.2/apache2/conf.d/20-readline.ini, /etc/php/7.2/apache2/conf.d/20-shmop.ini, /etc/php/7.2/apache2/conf.d/20-sockets.ini, /etc/php/7.2/apache2/conf.d/20-sysmsg.ini, /etc/php/7.2/apache2/conf.d/20-syssem.ini, /etc/php/7.2/apache2/conf.d/20-sysvshm.ini, /etc/php/7.2/apache2/conf.d/20-tokenizer.ini
PHP API	20170718
PHP Extension	20170718
Zend Extension	320170718
Zend Extension Build	API20170718.NTS
PHP Extension Build	API20170718.NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	enabled
Zend Memory Manager	enabled
Zend Multibyte Support	disabled
IPv6 Support	enabled
DTrace Support	available, disabled
Registered PHP Streams	https, ftps, compress.zlib, php, file, glob, data, http, ftp, phar
Registered Stream Socket Transports	tcp, udp, unix, udg, ssl, tls, tlsv1.0, tlsv1.1, tlsv1.2
Registered Stream Filters	zlib*: string.rot13, string.toupper, string.tolower, string.strip_tags, convert.*, consumed, dechunk, convert.iconv*

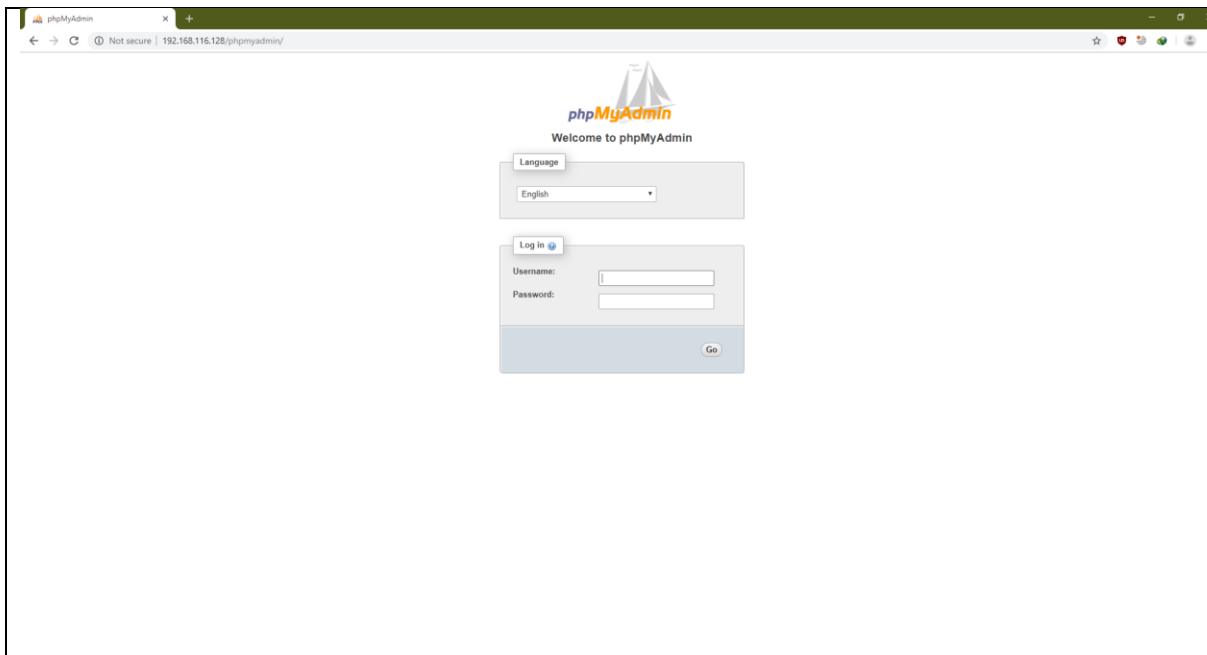
This program makes use of the Zend Scripting Language Engine:  
Zend Engine v3.2.0, Copyright (c) 1998-2018 Zend Technologies  
with Zend OPcache v7.2.19-0ubuntu0.18.10.1, Copyright (c) 1999-2018, by Zend Technologies

zendengine

Configuration  
apache2handler

Apache Version: Apache/2.4.18 (Ubuntu)

6. Tampilkan halaman awal dari login PHPMyAdmin pada browser



phpMyAdmin

Welcome to phpMyAdmin

Language: English

Log in

Username:

Password:

Go

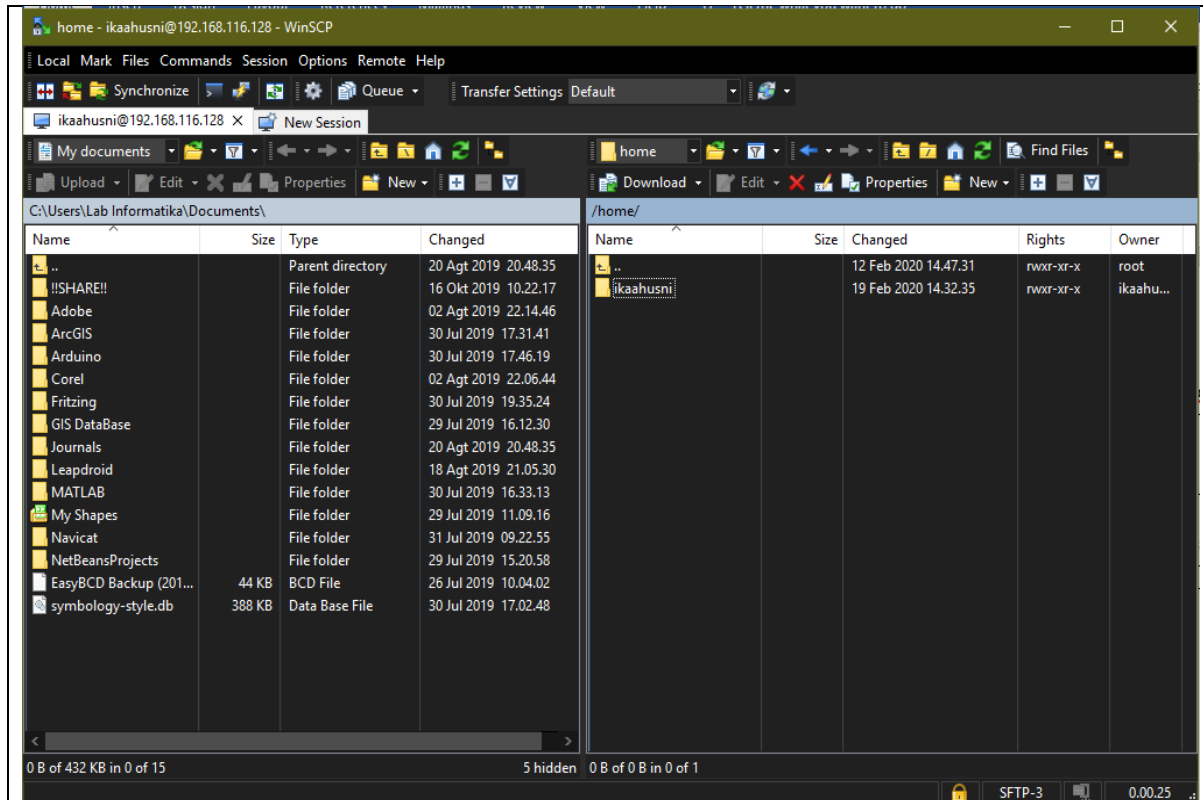


7. Deskripsikan parameter untuk memperbaiki login database (Flush Privileges)

```
$ sudo mysql -u root -p
```

```
Mysql> FLUSH PRIVILEGES;
```

8. Tampilkan hasil login WinSCP yang menunjukkan berkas pada Ubuntu Server



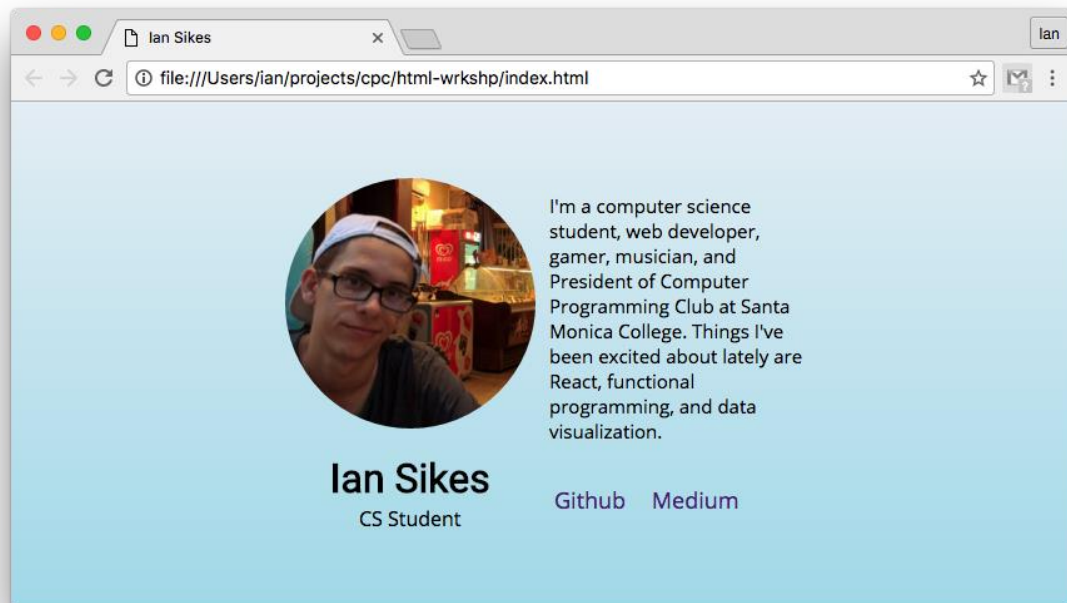
## **TUGAS BAGIAN KEDUA:**

Khusus untuk yang telah mengerjakan tugas 000webhost:

Unduh berkas PHP/HTML Rumah Makan yang tersimpan pada 000webhost Anda.

Khusus untuk yang belum mengerjakan tugas 000webhost:

Buatlah biodata/CV sederhana yang menampilkan identitas Anda menggunakan bahasa PHP/HTML dengan contoh hasil seperti pada ilustrasi berikut



LAKUKAN UNGGAH BERKAS TERSEBUT PADA UBUNTU SERVER, KEMUDIAN TAMPILKAN HASILNYA PADA BROWSER. ATUR JUGA DATABASE BILA PERLU.



### **TUGAS BAGIAN KETIGA:**

Catatlah IP lima teman Anda secara acak pada tabel berikut, kemudian buat definisi domain untuk teman Anda dengan format: <http://www.namateman.if.upnyk.ac.id>

No.	IP	Nama	Domain
ex.	192.168.64.250	Wahyu Aji Nugroho	<b>wahyu</b> .if.upnyk.ac.id
	192.168.64.245	Muhammad Imam Alfatah	<b>imam</b> .if.upnyk.ac.id
1.			.if.upnyk.ac.id
2.			.if.upnyk.ac.id
3.			.if.upnyk.ac.id
4.			.if.upnyk.ac.id
5.			.if.upnyk.ac.id

Tampilkan hasil akses situs tersebut (menggunakan domain, bukan akses dengan IP) pada isian berikut (perlihatkan URL pada tangkapan layar):

1. Situs pertama

2. Situs kedua

3. Situs ketiga

4. Situs keempat

5. Situs kelima