



## **LEMBAR KERJA PRAKTIKUM CLOUD COMPUTING**

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

#### **IDENTITAS:**

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Kelas:	<b>D</b>
Hari, Tanggal:	<b>Jumat, 21 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
```

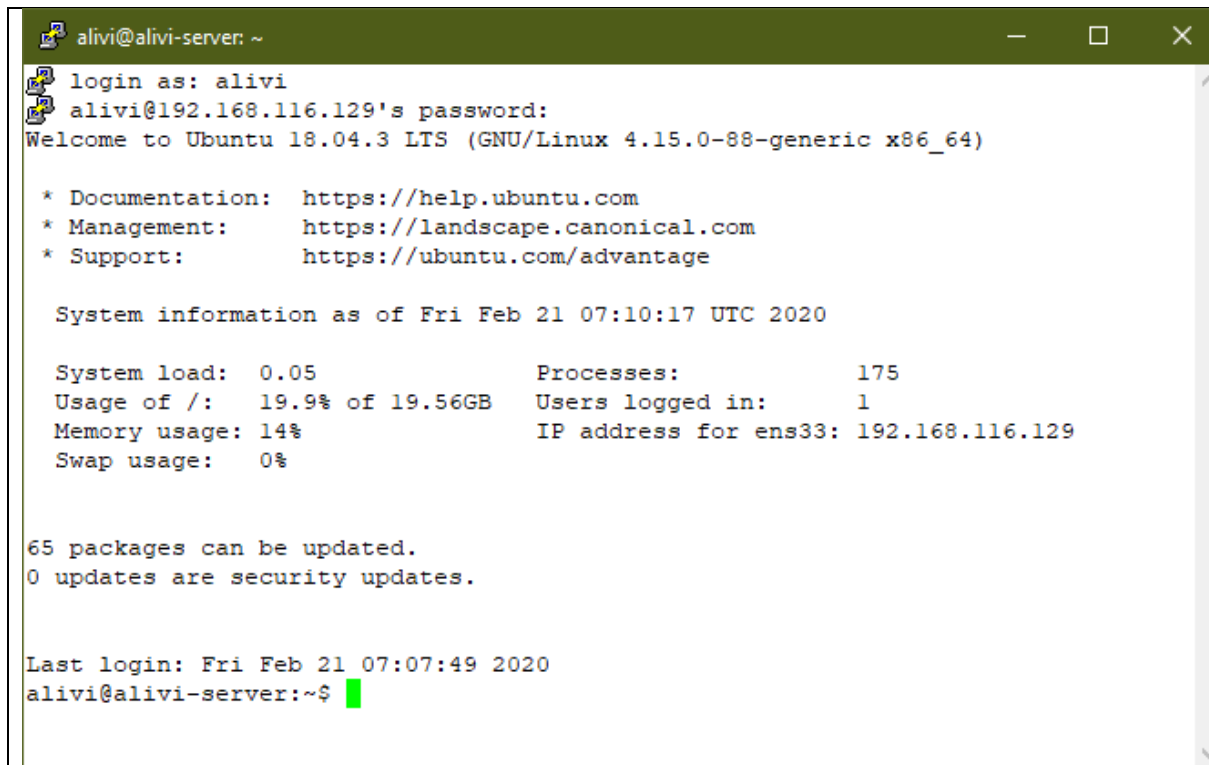
Perintah exit digunakan untuk keluar dari sesi akun aktif

3. Tampilkan pesan kesalahan pada saat login PHPMyAdmin



## **TUGAS BAGIAN PERTAMA:**

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

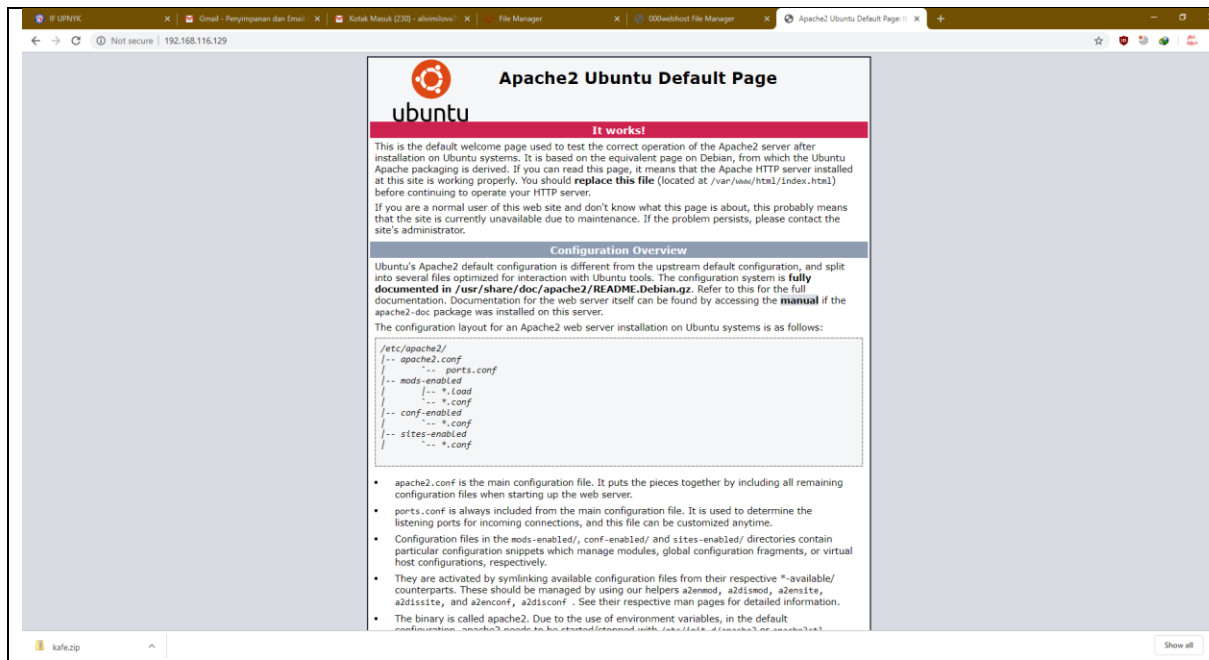


```
alivi@alivi-server: ~  
login as: alivi  
alivi@192.168.116.129's password:  
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-88-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/advantage  
  
System information as of Fri Feb 21 07:10:17 UTC 2020  
  
System load:  0.05               Processes:            175  
Usage of /:   19.9% of 19.56GB   Users logged in:     1  
Memory usage: 14%               IP address for ens33: 192.168.116.129  
Swap usage:   0%  
  
65 packages can be updated.  
0 updates are security updates.  
  
Last login: Fri Feb 21 07:07:49 2020  
alivi@alivi-server:~$
```

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

Create a new VMWare Workstation dan setelah proses selesai maka setelah login pada ubuntu di VMWare Workstation akan mendapatkan IP dari server.

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



#### 4. Tampilkan proses instalasi MySQL

```
alivi@alivi-server: ~  
Enabling module authz_user.  
Enabling module alias.  
Enabling module dir.  
Enabling module autoindex.  
Enabling module env.  
Enabling module mime.  
Enabling module negotiation.  
Enabling module setenvif.  
Enabling module filter.  
Enabling module deflate.  
Enabling module status.  
Enabling module reqtimeout.  
Enabling conf charset.  
Enabling conf localized-error-pages.  
Enabling conf other-vhosts-access-log.  
Enabling conf security.  
Enabling conf serve-cgi-bin.  
Enabling site 000-default.  
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.  
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.  
Processing triggers for libc-bin (2.27-3ubuntu1) ...  
Processing triggers for systemd (237-3ubuntu10.38) ...  
Processing triggers for ureadahead (0.100.0-21) ...  
Processing triggers for ufw (0.36-0ubuntu0.18.04.1) ...  
alivi@alivi-server:~$ sudo ufw allow in "Apache Full"  
Rules updated  
Rules updated (v6)  
alivi@alivi-server:~$ sudo apt install mysql-server  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following additional packages will be installed:  
  libaio1 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 tinycd  
The following NEW packages will be installed:  
  libaio1 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 65 not upgraded.  
Need to get 19.7 MB of archives.  
After this operation, 156 MB of additional disk space will be used.  
Do you want to continue? [Y/n]
```

alivi@alivi-server: ~

```
Preparing to unpack .../12-liblwp-mediatypes-perl_6.02-1_all.deb ...
Unpacking liblwp-mediatypes-perl (6.02-1) ...
Selecting previously unselected package libhttp-message-perl.
Preparing to unpack .../13-libhttp-message-perl_6.14-1_all.deb ...
Unpacking libhttp-message-perl (6.14-1) ...
Selecting previously unselected package mysql-server.
Preparing to unpack .../14-mysql-server_5.7.29-0ubuntu0.18.04.1_all.deb ...
Unpacking mysql-server (5.7.29-0ubuntu0.18.04.1) ...
Setting up libhtml-tagset-perl (3.20-3) ...
Setting up libevent-core-2.1-6:amd64 (2.1.8-stable-4build1) ...
Processing triggers for ureadahead (0.100.0-21) ...
Setting up libencode-locale-perl (1.05-1) ...
Setting up libtimedate-perl (2.3000-2) ...
Setting up libio-html-perl (1.001-1) ...
Setting up liblwp-mediatypes-perl (6.02-1) ...
Processing triggers for libc-bin (2.27-3ubuntu1) ...
Setting up libaio1:amd64 (0.3.110-5ubuntu0.1) ...
Setting up liburi-perl (1.73-1) ...
Processing triggers for systemd (237-3ubuntu10.38) ...
Setting up libhtml-parser-perl (3.72-3build1) ...
Setting up libcgi-pm-perl (4.38-1) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Setting up mysql-client-core-5.7 (5.7.29-0ubuntu0.18.04.1) ...
Setting up libfcgi-perl (0.78-2build1) ...
Setting up libhttp-date-perl (6.02-1) ...
Setting up libhtml-template-perl (2.97-1) ...
Setting up mysql-server-core-5.7 (5.7.29-0ubuntu0.18.04.1) ...
Setting up libcgi-fast-perl (1:2.13-1) ...
Setting up libhttp-message-perl (6.14-1) ...
Setting up mysql-client-5.7 (5.7.29-0ubuntu0.18.04.1) ...
Setting up mysql-server-5.7 (5.7.29-0ubuntu0.18.04.1) ...
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 (5.7.29-0ubuntu0.18.04.1) ...
Processing triggers for libc-bin (2.27-3ubuntu1) ...
Processing triggers for systemd (237-3ubuntu10.38) ...
Processing triggers for ureadahead (0.100.0-21) ...
alivi@alivi-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

```
alivi@alivi-server: ~  
  
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) : 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  
- 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!  
alivi@alivi-server:~$
```

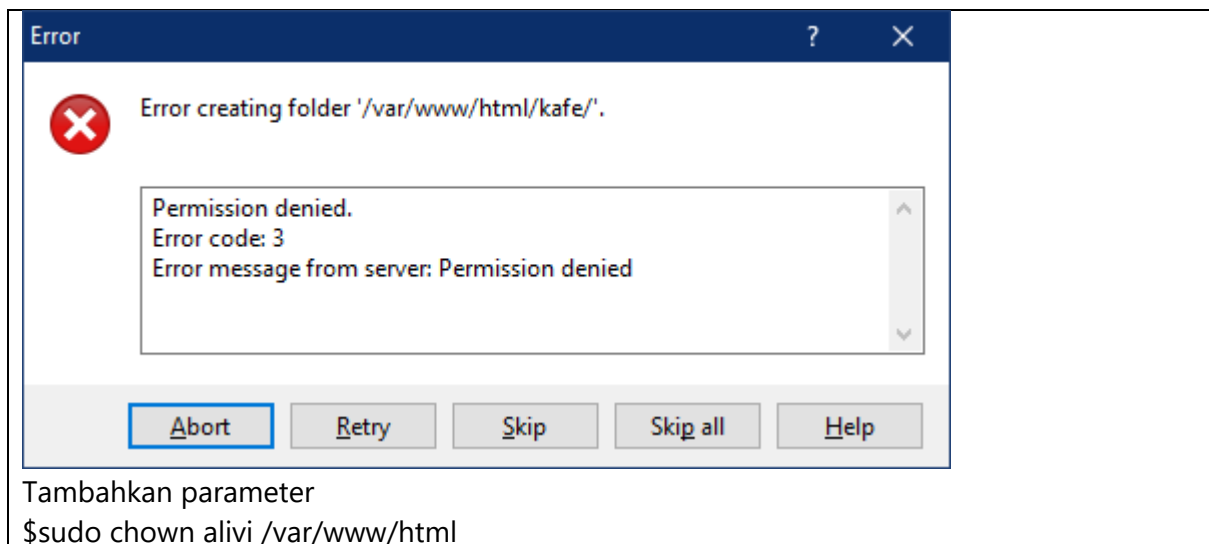
5. Tampilkan keberhasilan instalasi PHP dengan cara menampilkan info.php pada browser





```
alivi@alivi-server: ~  
Setting up libtiff5:amd64 (4.0.9-5ubuntu0.3) ...  
Setting up php-zip (1:7.2+60ubuntu1) ...  
Setting up phpmyadmin (4:4.6.6-5) ...  
Determining localhost credentials from /etc/mysql/debian.cnf: succeeded.  
dbconfig-common: writing config to /etc/dbconfig-common/phpmyadmin.conf  
  
Creating config file /etc/dbconfig-common/phpmyadmin.conf with new version  
  
Creating config file /etc/phpmyadmin/config-db.php with new version  
checking privileges on database phpmyadmin for phpmyadmin@localhost: user creation needed.  
granting access to database phpmyadmin for phpmyadmin@localhost: success.  
verifying access for phpmyadmin@localhost: success.  
creating database phpmyadmin: success.  
verifying database phpmyadmin exists: success.  
populating database via sql... done.  
dbconfig-common: flushing administrative password  
apache2_invoke: Enable configuration phpmyadmin  
Setting up php-gettext (1.0.12-0.1) ...  
Setting up libfontconfig1:amd64 (2.12.6-0ubuntu2) ...  
Setting up libgd3:amd64 (2.2.5-4ubuntu0.3) ...  
Setting up php7.2-gd (7.2.24-0ubuntu0.18.04.3) ...  
  
Creating config file /etc/php/7.2/mods-available/gd.ini with new version  
Setting up php-gd (1:7.2+60ubuntu1) ...  
Processing triggers for libc-bin (2.27-3ubuntu1) ...  
Processing triggers for libapache2-mod-php7.2 (7.2.24-0ubuntu0.18.04.3) ...  
alivi@alivi-server:~$ sudo mysql -u root  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 15  
Server version: 5.7.29-0ubuntu0.18.04.1 (Ubuntu)  
  
Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
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> UPDATE mysql.user SET plugin = 'mysql_native_password',authentication_string = PASSWORD ('alivi')WHERE User = 'root'  
-> ;  
Query OK, 1 row affected, 1 warning (0.00 sec)  
Rows matched: 1  Changed: 1  Warnings: 1  
  
mysql> flush privileges;  
Query OK, 0 rows affected (0.00 sec)  
  
mysql> exit  
Bye  
alivi@alivi-server:~$
```

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



```
alivi@alivi-server: ~  
Setting up php-zip (1:7.2+60ubuntu1) ...  
Setting up phpmyadmin (4:4.6.6-5) ...  
Determining localhost credentials from /etc/mysql/debian.cnf: succeeded.  
dbconfig-common: writing config to /etc/dbconfig-common/phpmyadmin.conf  
  
Creating config file /etc/dbconfig-common/phpmyadmin.conf with new version  
  
Creating config file /etc/phpmyadmin/config-db.php with new version  
checking privileges on database phpmyadmin for phpmyadmin@localhost: user creati  
on needed.  
granting access to database phpmyadmin for phpmyadmin@localhost: success.  
verifying access for phpmyadmin@localhost: success.  
creating database phpmyadmin: success.  
verifying database phpmyadmin exists: success.  
populating database via sql... done.  
dbconfig-common: flushing administrative password  
apache2_invoke: Enable configuration phpmyadmin  
Setting up php-gettext (1.0.12-0.1) ...  
Setting up libfontconfig1:amd64 (2.12.6-0ubuntu2) ...  
Setting up libgd3:amd64 (2.2.5-4ubuntu0.3) ...  
Setting up php7.2-gd (7.2.24-0ubuntu0.18.04.3) ...  
  
Creating config file /etc/php/7.2/mods-available/gd.ini with new version  
Setting up php-gd (1:7.2+60ubuntu1) ...  
Processing triggers for libc-bin (2.27-3ubuntu1) ...  
Processing triggers for libapache2-mod-php7.2 (7.2.24-0ubuntu0.18.04.3) ...  
alivi@alivi-server:~$ sudo mysql -u root  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 15  
Server version: 5.7.29-0ubuntu0.18.04.1 (Ubuntu)  
  
Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
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> UPDATE mysql.user SET plugin = 'mysql_native_password',authentication_str  
ing = PASSWORD ('alivi')WHERE User = 'root'  
-> ;  
Query OK, 1 row affected, 1 warning (0.00 sec)  
Rows matched: 1  Changed: 1  Warnings: 1  
  
mysql> flush privileges;  
Query OK, 0 rows affected (0.00 sec)  
  
mysql> exit  
Bye  
alivi@alivi-server:~$ sudo chown alivi /var/www/html  
alivi@alivi-server:~$
```

html - 192.168.116.129 - WinSCP

Local Mark Files Commands Session Options Remote Help

Synchronize Queue Transfer Settings Default

192.168.116.129 X New Session

C:\System

Upload Edit Properties New

C:\Users\Lab Informatika\Downloads\

Name	Size	Type	Changed
..		Parent directory	21 Feb 2020 14:05:04
kafe		File folder	21 Feb 2020 14:46:18
kafe.zip	3.533 KB	Compressed (zipp...	21 Feb 2020 14:05:05

0 B of 3,45 MB in 0 of 2

1 hidden

/var/www/html/

Name	Size	Changed	Rights	Owner
..		21 Feb 2020 14:15:36	rxr-xr-x	root
kafe		21 Feb 2020 14:50:48	rxrwxr-x	alivi
index.html	11 KB	21 Feb 2020 14:15:39	rw-r--r--	root
info.php	1 KB	21 Feb 2020 14:31:02	rw-r--r--	root

0 B of 10,6 KB in 0 of 3

SFTP-3 0.05.08

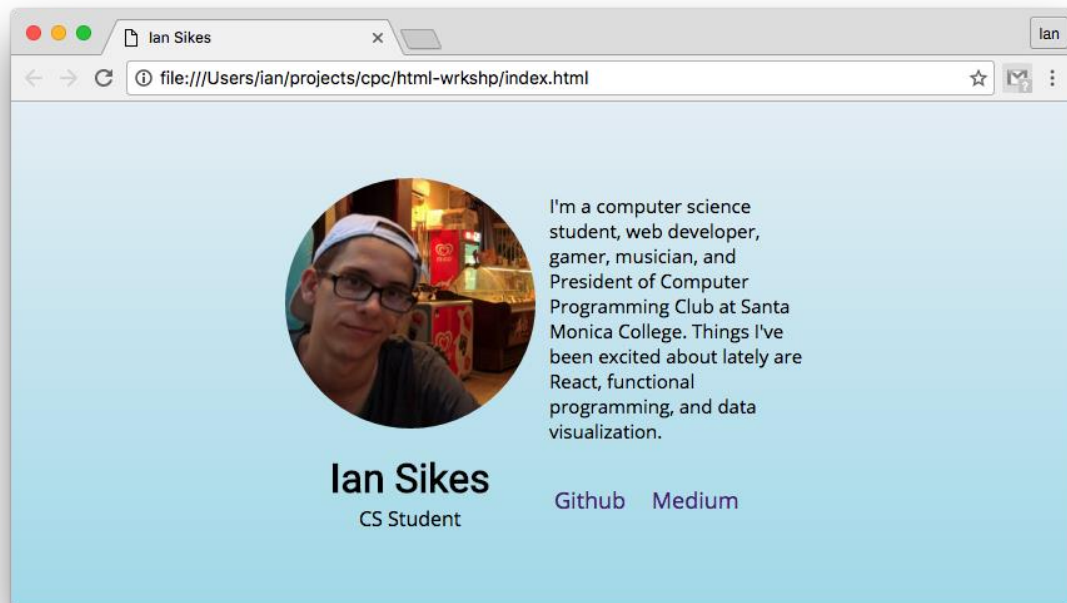
## **TUGAS BAGIAN KEDUA:**

Khusus untuk yang telah mengerjakan tugas 000webhost:

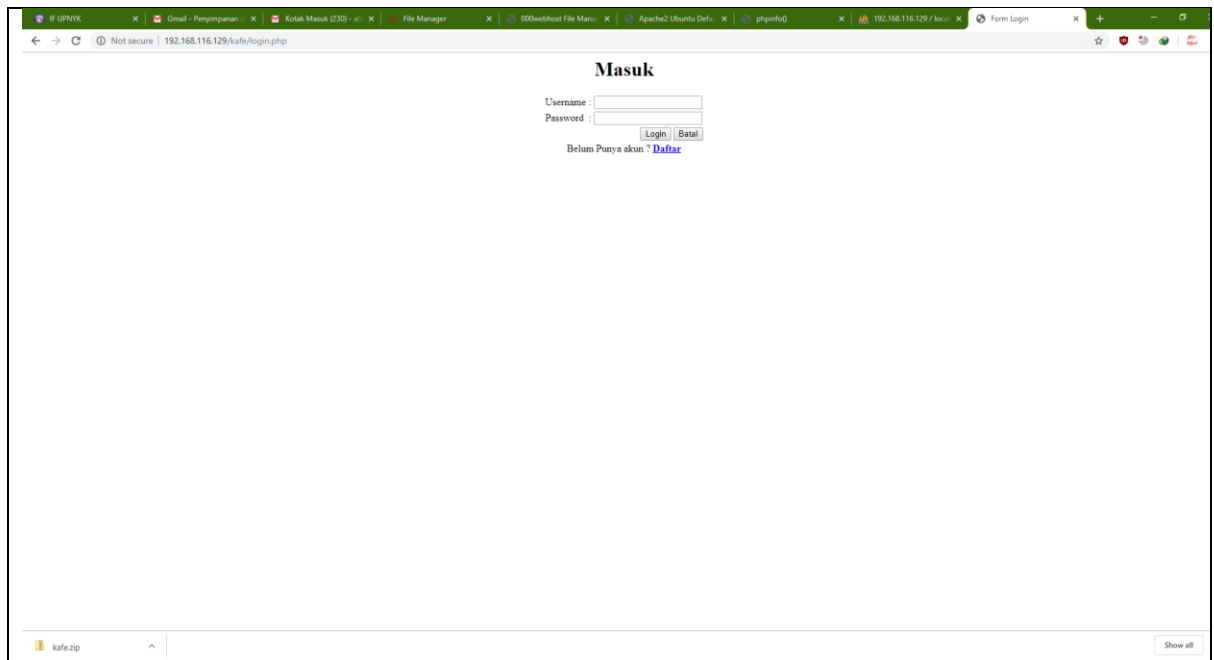
Unduh berkas PHP/HTML Rumah Makan yang tersimpan pada 000webhost Anda.

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.



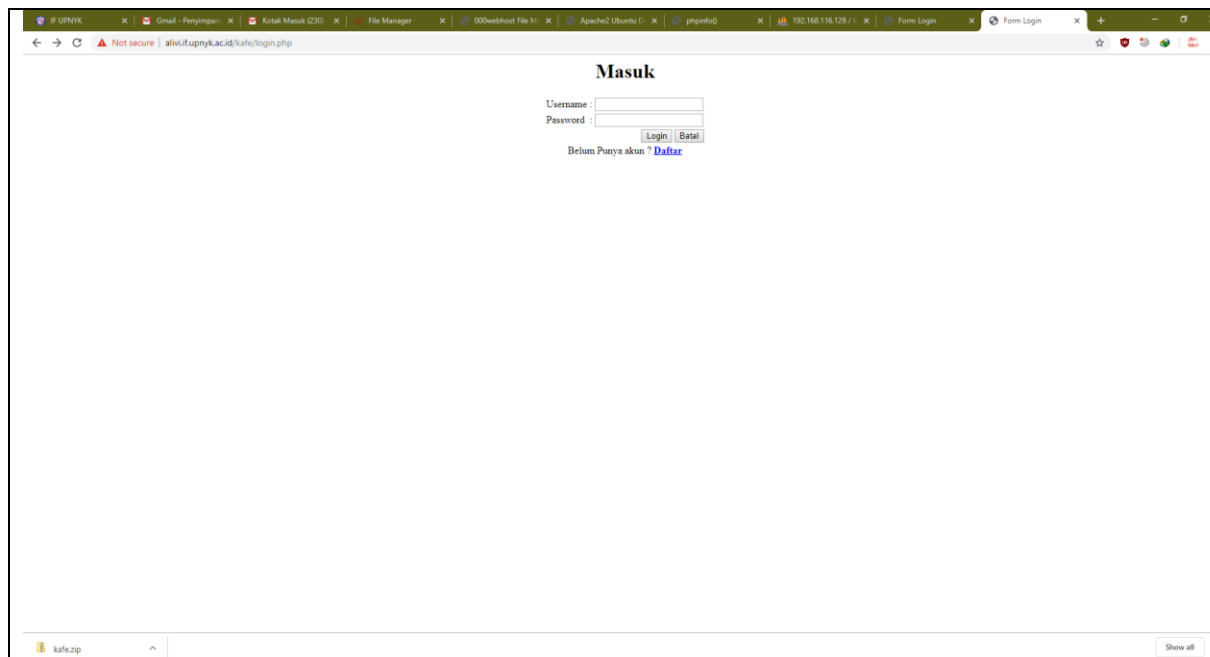
### **TUGAS BAGIAN KETIGA:**

Catatlah IP lima teman Anda secara acak pada tabel berikut, kemudian buat definisi domain untuk teman Anda dengan format: <http://www.namatemam.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.	192.168.116.129	Alivi Milova	alivi.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