



## **LEMBAR KERJA PRAKTIKUM CLOUD COMPUTING**

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

#### **IDENTITAS:**

Nama:	<b>Irfandi Galih Prasetya</b>
NIM:	<b>123170034</b>
Kelas:	<b>A</b>
Hari, Tanggal:	<b>Kamis , 20 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
```

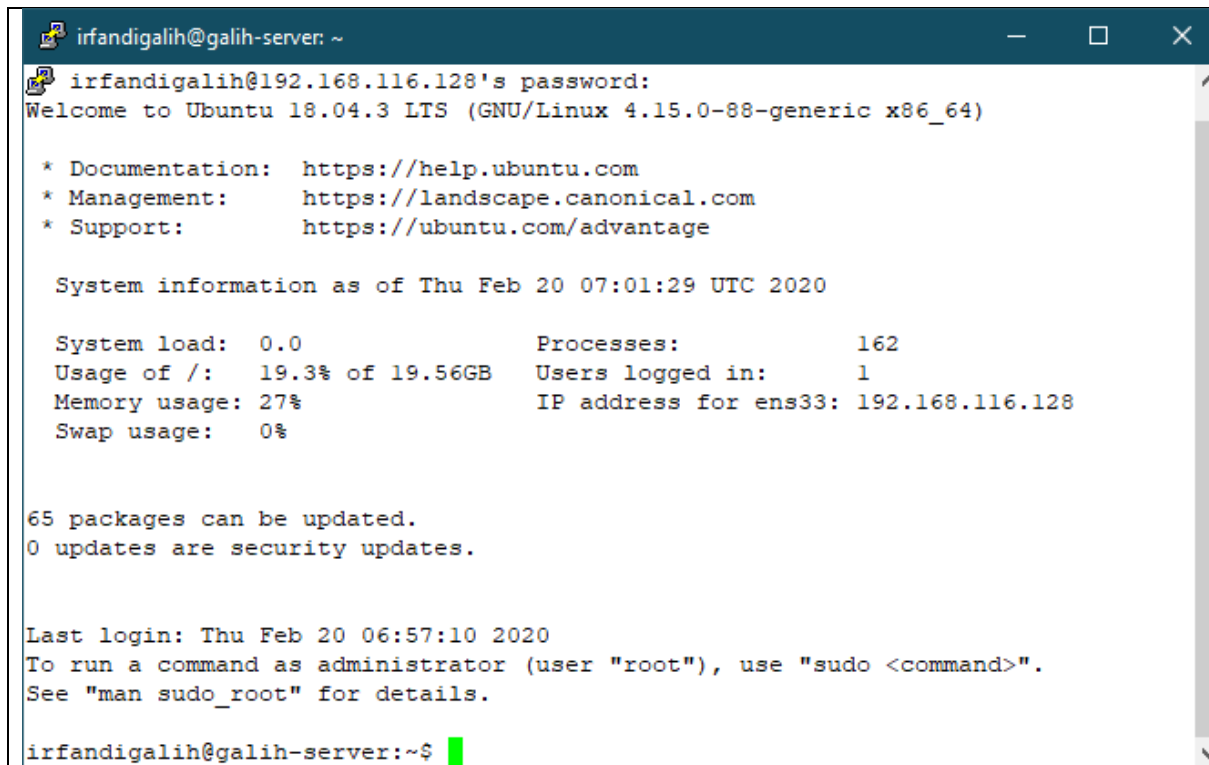
Perintah exit digunakan untuk keluar dari sesi akun aktif

3. Tampilkan pesan kesalahan pada saat login PHPMyAdmin



## **TUGAS BAGIAN PERTAMA:**

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



```
irfandigalih@galih-server: ~  
irfandigalih@192.168.116.128'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 Thu Feb 20 07:01:29 UTC 2020  
  
System load:  0.0           Processes:            162  
Usage of /:   19.3% of 19.56GB Users logged in:       1  
Memory usage: 27%          IP address for ens33: 192.168.116.128  
Swap usage:   0%  
  
65 packages can be updated.  
0 updates are security updates.  
  
Last login: Thu Feb 20 06:57:10 2020  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
irfandigalih@galih-server:~$
```

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

```
Feb 2020 06:56:19 +0000. Datasource DataSourceNoCloud [seed=/var/lib/cloud/seed/nocloud-net] [dsmoc=net]. Up 21.33 seconds
```

```
Ubuntu 18.04.3 LTS galih-server tty1
```

```
galih-server login: irfandigalih
```

```
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 Thu Feb 20 06:57:10 UTC 2020
```

```
System load:  0.48      Processes:            196
Usage of /:   19.3% of 19.56GB Users logged in:      0
Memory usage: 26%      IP address for ens33: 192.168.116.128
Swap usage:   0%
```

```
65 packages can be updated.
0 updates are security updates.
```

The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/\*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo\_root" for details.

```
irfandigalih@galih-server:~$ _
```

#### - Atau pakai perintah ifconfig

```
Swap usage: 0%
```

```
65 packages can be updated.
0 updates are security updates.
```

The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/\*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo\_root" for details.

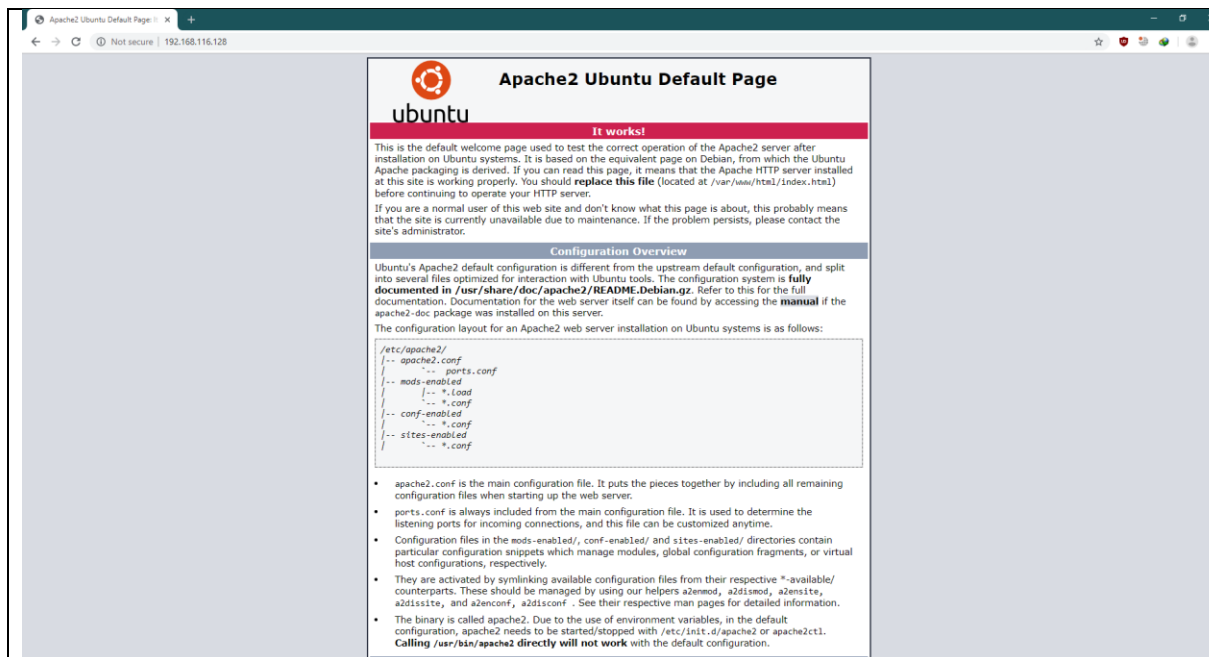
```
irfandigalih@galih-server:~$ ifconfig
```

```
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.116.128 netmask 255.255.255.0 broadcast 192.168.116.255
    inet6 fe80::20c:29ff:fec7:f09e prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:c7:f0:9e txqueuelen 1000 (Ethernet)
    RX packets 234 bytes 55053 (55.0 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 137 bytes 22310 (22.3 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 112 bytes 8848 (8.8 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 112 bytes 8848 (8.8 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
irfandigalih@galih-server:~$
```

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



4. Tampilkan proses instalasi MySQL

1. \$ Sudo apt install mysql-server

```
irfandigalih@galih-server: ~  
Rules updated (v6)  
irfandigalih@galih-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-p  
  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 tinycs  
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-p  
  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]
```

irfandigalih@galih-server: ~

```
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
in auto mode
Renaming removed key_buffer and myisam-recover options (if present)
Created symlink /etc/systemd/system/multi-user.target.wants/mysql.service
/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) ...
irfandigalih@galih-server:~$
```

## 2. \$ sudo mysql\_secure\_installation

irfandigalih@galih-server: ~

```
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
in auto mode
Renaming removed key_buffer and myisam-recover options (if present)
Created symlink /etc/systemd/system/multi-user.target.wants/mysql.service
/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) ...
irfandigalih@galih-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: 
```

Opsi 1 No.



	<pre> irfandigalih@galih-server: ~ 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) : </pre>
	<pre> irfandigalih@galih-server: ~ 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 : </pre>



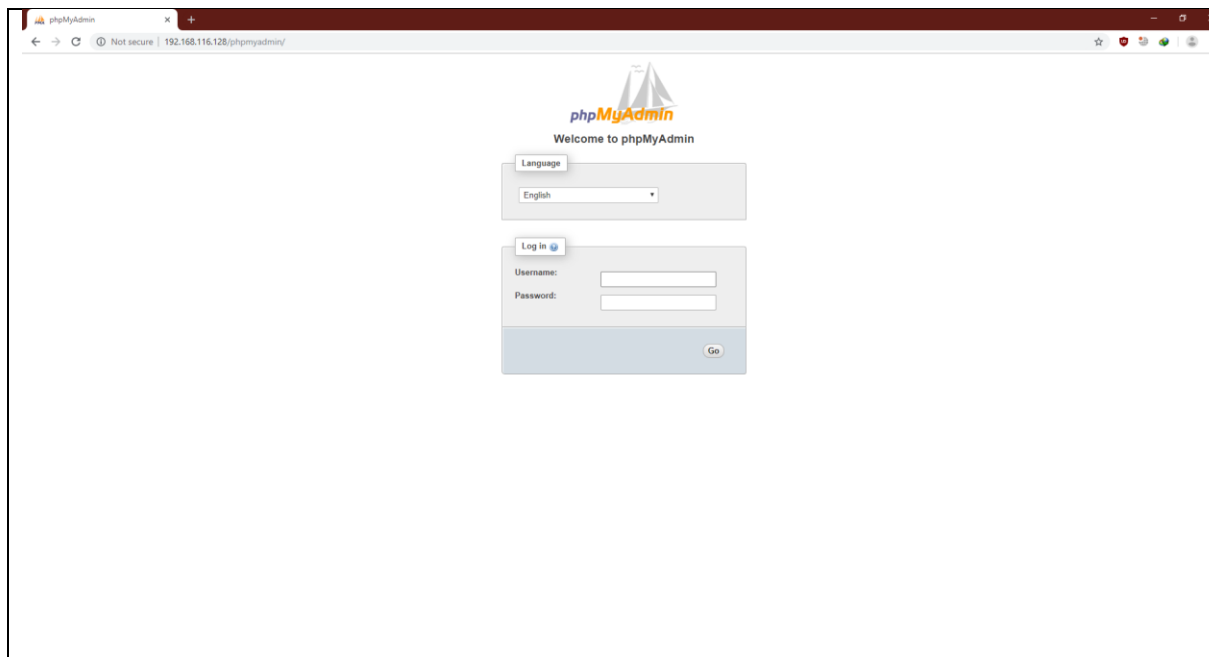
```
irfandigalih@galih-server: ~  
'localhost'. This ensures that someone cannot guess at  
the root password from the network.  
  
Disallow root login remotely? (Press y|Y for Yes, any other key for No) : Y  
Success.  
  
By default, MySQL comes with a database named 'test' that  
anyone can access. 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  
: 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.  
  
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  
: 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!  
irfandigalih@galih-server:~$
```

"All done!" menandakan proses akhir dari wizard pengaturan MySQL telah selesai

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



6. Tampilkan halaman awal dari login PHPmyAdmin pada browser



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

```
irfandigalih@galih-server: ~  
mysql> UPDATE mysql.user SET plugin = 'mysql_native_password', authentication_string = PASSWORD('wokegaming') WHERE User = 'root';  
Query OK, 1 row affected, 1 warning (0.00 sec)  
Rows matched: 1  Changed: 1  Warnings: 1  
  
mysql> exit  
Bye  
irfandigalih@galih-server:~$ sudo mysql -u root  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 18  
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> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.00 sec)  
  
mysql>
```

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

The screenshot shows the WinSCP interface with the local file system on the left and the remote file system on the right. The local file system is located at C:\Users\Lab Informatika\Documents\ and contains various folders and files. The remote file system is located at /var/www/html/ and contains index.html and info.php files.

Name	Size	Type	Changed
..		Parent directory	20 Feb 2020 14:30:38
!SHARE!!		File folder	06 Okt 2019 21:21:31
Adobe		File folder	02 Agt 2019 22:14:46
ArcGIS		File folder	30 Jul 2019 17:31:41
Arduino		File folder	30 Jul 2019 17:46:19
Corel		File folder	02 Agt 2019 22:06:44
Custom Office Templ...		File folder	20 Feb 2020 14:30:38
Fritzing		File folder	30 Jul 2019 19:35:24
GIS DataBase		File folder	29 Jul 2019 16:12:30
Journals		File folder	20 Agt 2019 20:48:35
Leapdroid		File folder	18 Agt 2019 21:05:30
MATLAB		File folder	30 Jul 2019 16:33:13
My Shapes		File folder	29 Jul 2019 11:09:16
Navicat		File folder	31 Jul 2019 09:22:55
NetBeansProjects		File folder	29 Jul 2019 15:20:58
EasyBCD Backup (201...	44 KB	BCD File	26 Jul 2019 10:04:02
symbology-style.db	388 KB	Data Base File	30 Jul 2019 17:02:48

Name	Size	Changed	Rights	Owner
..		20 Feb 2020 14:11:11	rw-r--r--	root
index.html	11 KB	20 Feb 2020 14:11:14	rw-r--r--	root
info.php	1 KB	20 Feb 2020 14:29:49	rw-r--r--	root

0 B of 432 KB in 0 of 16 5 hidden 0 B of 10,6 KB in 0 of 2 SFTP-3 0.01.37

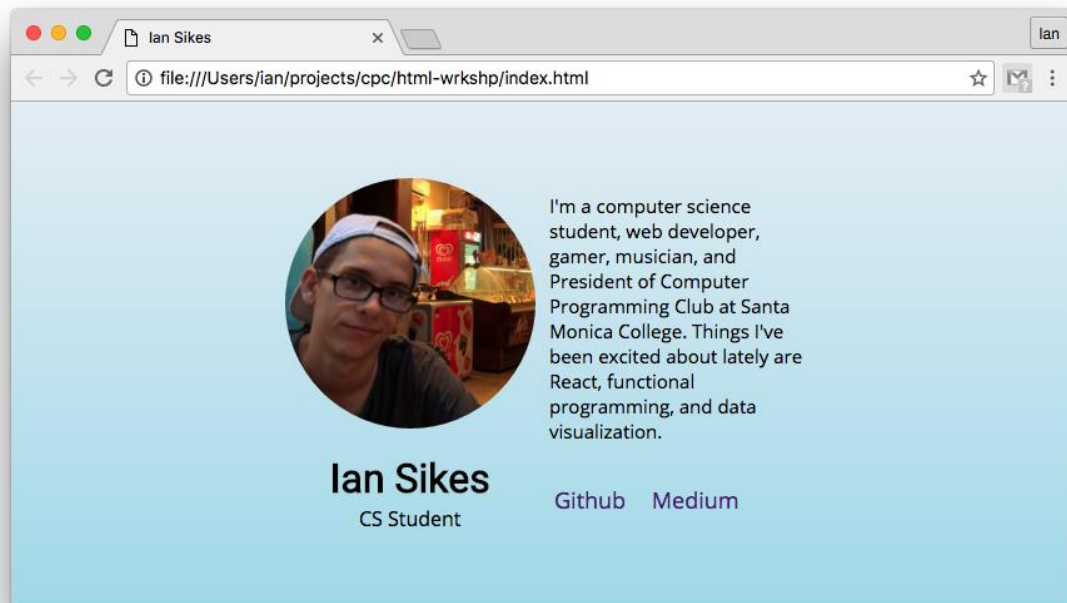
## **TUGAS BAGIAN KEDUA:**

Khusus untuk yang telah mengerjakan tugas 000webhost:

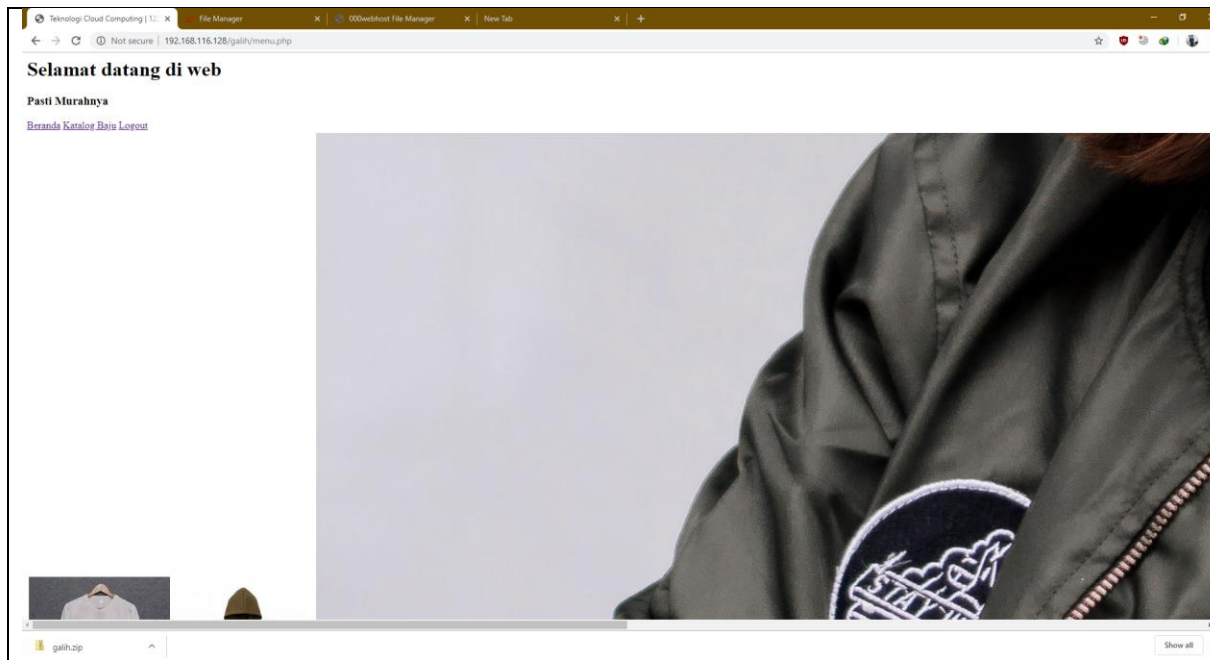
Unduh berkas PHP/HTML Rumah Makan yang tersimpan pada 000webhost Anda.

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.



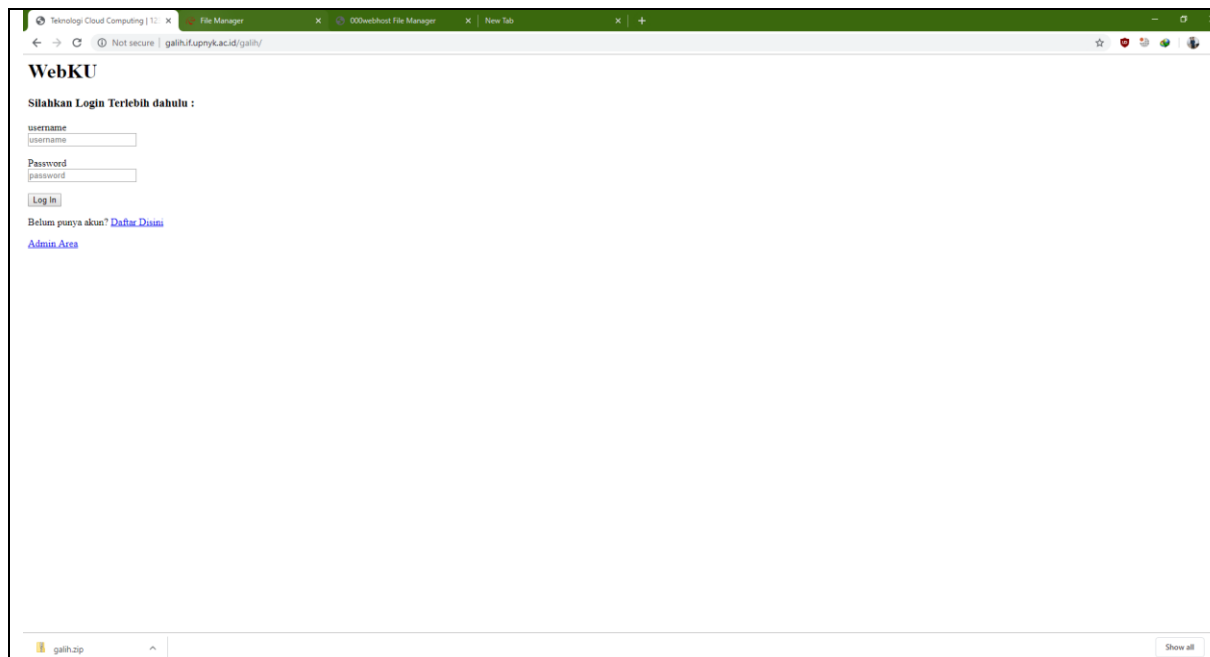
### **TUGAS BAGIAN KETIGA:**

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.	192.168.64.128	Irfandi Galih Prasetya	galih.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