



## **LEMBAR KERJA PRAKTIKUM CLOUD COMPUTING**

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

#### **IDENTITAS:**

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Hari, Tanggal:	<b>Rabu.19 February 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



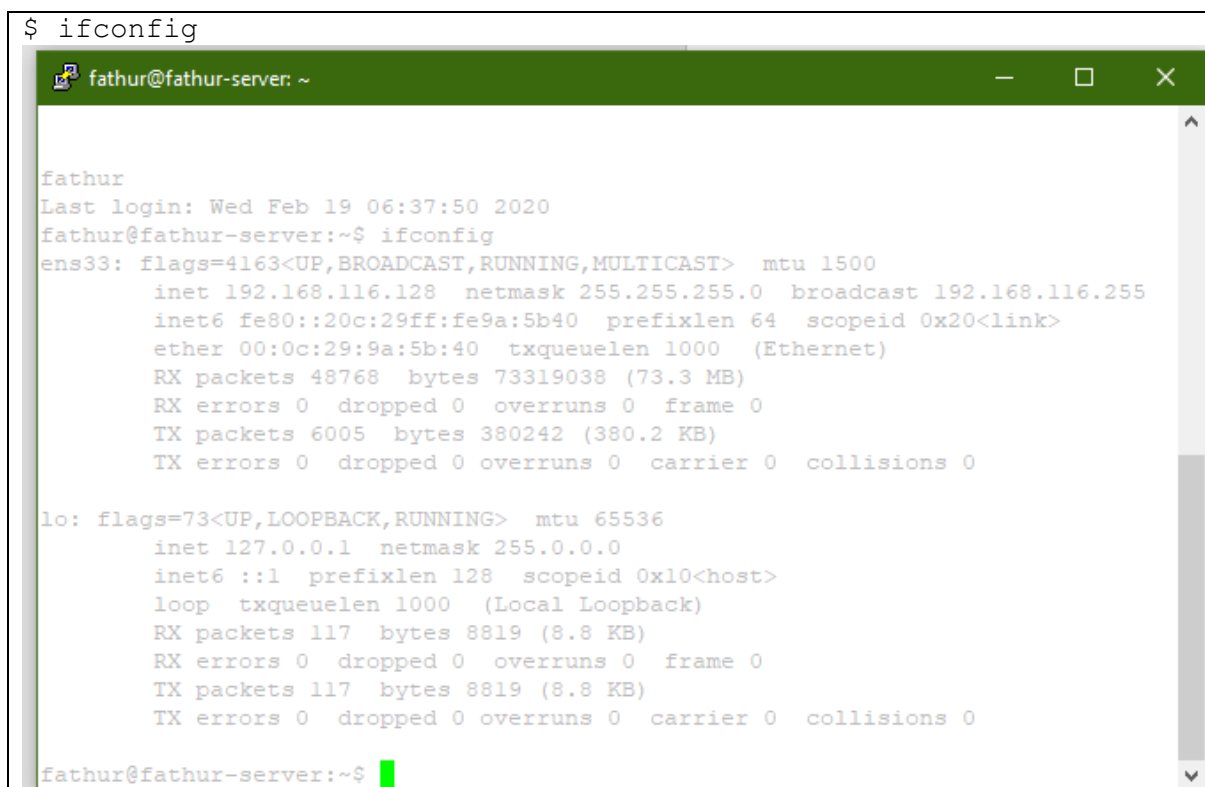
## **TUGAS BAGIAN PERTAMA:**

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



```
fathur@fathur-server: ~  
login as: fathur  
fathur@192.168.116.128's password:  
Welcome to Ubuntu 18.10 (GNU/Linux 4.18.0-25-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
System information as of Wed Feb 19 06:46:34 UTC 2020  
  
System load:  0.0                Processes:            163  
Usage of /:   18.6% of 22.51GB   Users logged in:     1  
Memory usage: 25%               IP address for ens33: 192.168.116.128  
Swap usage:   0%  
  
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.
```

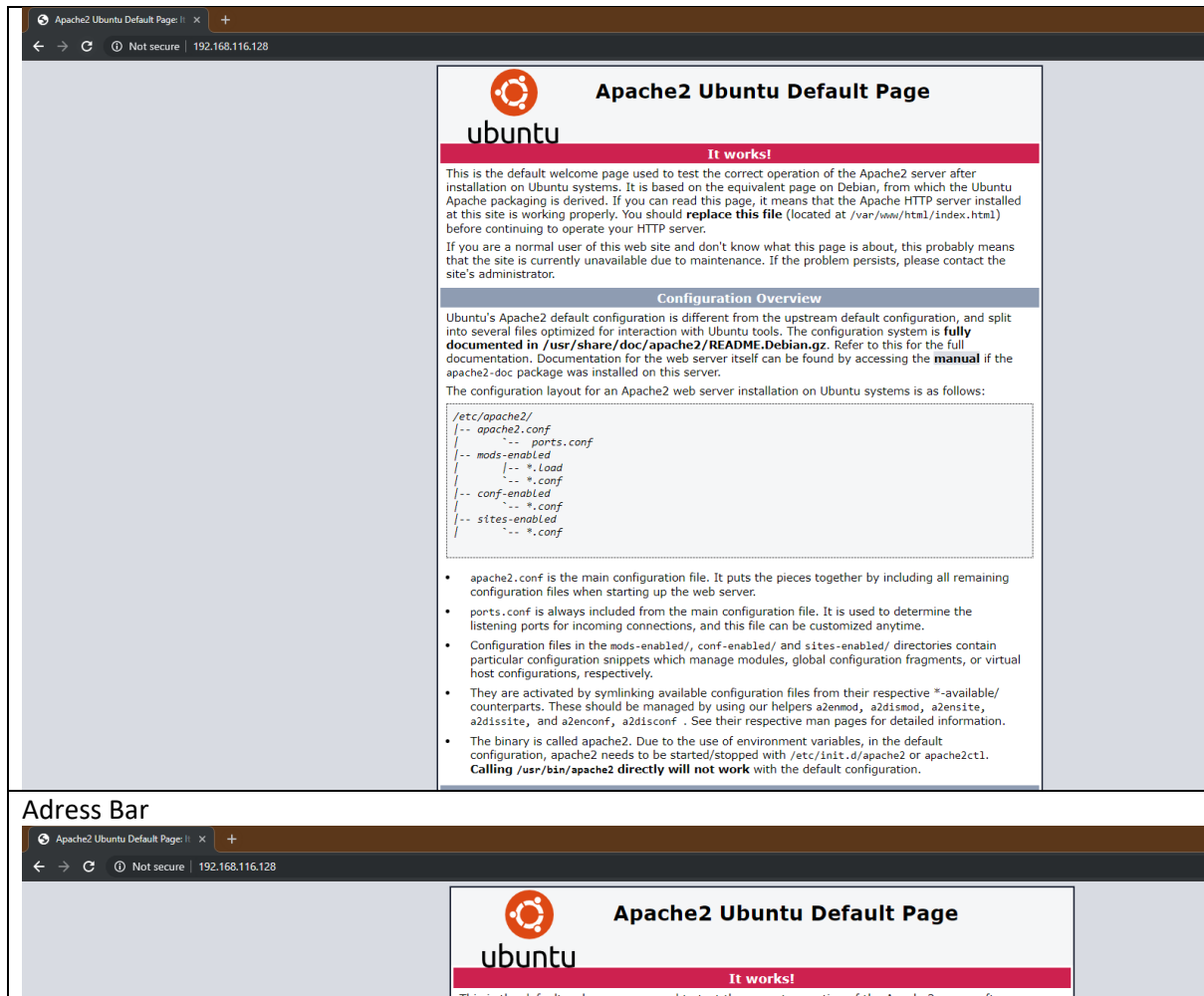
2. Deskripsikan parameter atau cara untuk mendapatkan IP dari Server Ubuntu



```
$ ifconfig  
  
fathur  
Last login: Wed Feb 19 06:37:50 2020  
fathur@fathur-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:fe9a:5b40  prefixlen 64  scopeid 0x20<link>  
    ether 00:0c:29:9a:5b:40  txqueuelen 1000  (Ethernet)  
    RX packets 48768  bytes 73319038 (73.3 MB)  
    RX errors 0  dropped 0  overruns 0  frame 0  
    TX packets 6005  bytes 380242 (380.2 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 117  bytes 8819 (8.8 KB)  
    RX errors 0  dropped 0  overruns 0  frame 0  
    TX packets 117  bytes 8819 (8.8 KB)  
    TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0  
  
fathur@fathur-server:~$
```

Pada tampilan PuTTY IP Address nya ditunjukan pada bagian inet 192.168.116.128

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



4. Tampilkan proses instalasi MySQL

a. Masukkan perintah `$sudo apt install mysql-server`

```
fathur@fathur-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 tinyca
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 183 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]
```

- b. Setelah tampilan seperti diatas maka input huruf Y
- c. Lanjutkan dengan proses pengaman mysql,\$sudo\_secure\_installation

```
Processing triggers for systemd (239-7ubuntu10) ...
fathur@fathur-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
```

- d. Setelah Anda menginputkan No., maka proses selanjutnya Input huruf Y, fungsinya untuk mentidakaktifkan pada server Cloud.

```
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.
```

- e. Untuk alasan pengaman maka input huruf Y

```
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.
```

f. Tahap terakhir tahap refresh, dengan menginput huruf Y

```
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) :
- 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.
```

5. Tampilkan keberhasilan instalasi PHP dengan cara menampilkan [info.php](#) pada browser


Apache2 Ubuntu Default Page: It

phpinfo()

+

← → ↻ ⓘ Not secure | 192.168.116.128/info.php

PHP Version 7.2.19-0ubuntu0.18.10.1




System	Linux fathur-server 4.18.0-25-generic #26-Ubuntu SMP Mon Jun 24 09:32:08 UTC 2019 x86_64
Build Date	Jun 4 2019 14:45:43
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-opcache.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-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-json.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-sysvmsg.ini, /etc/php/7.2/apache2/conf.d/20-sysvsem.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	API320170718.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



Configuration

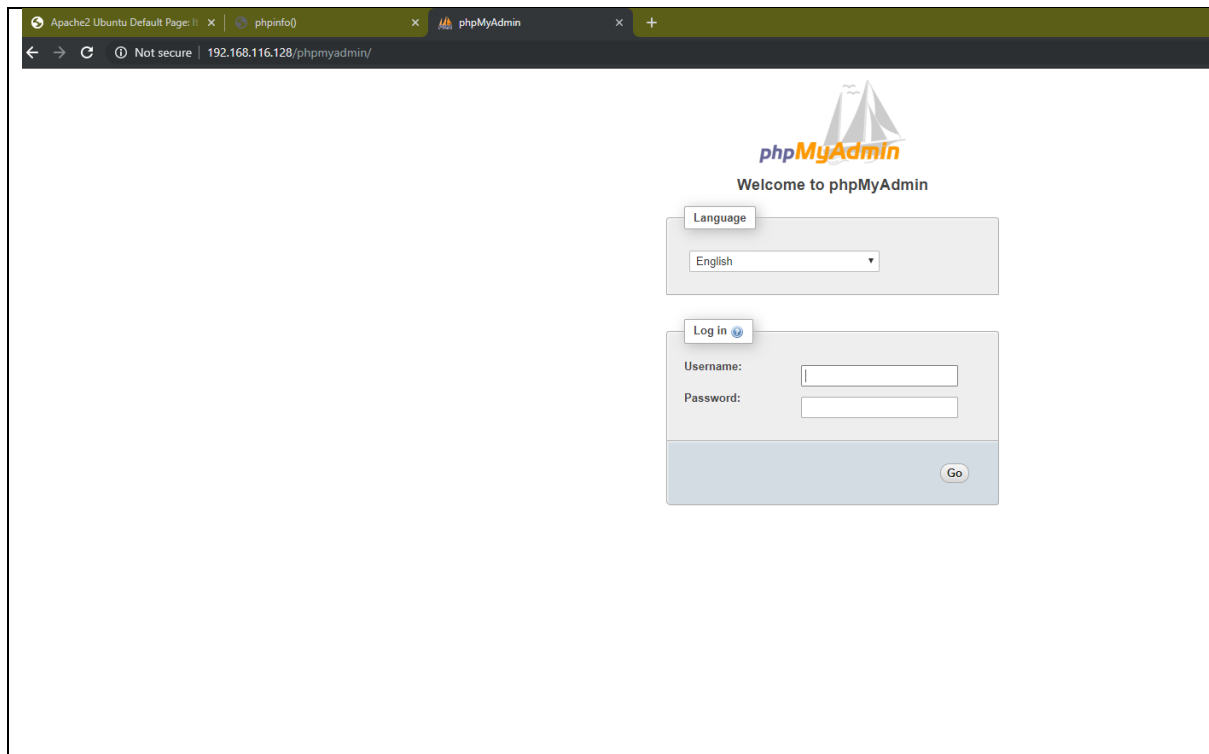
Apache2 Ubuntu Default Page: It

phpinfo()

+

← → ↻ ⓘ Not secure | 192.168.116.128/info.php

6. Tampilkan halaman awal dari login PHPmyAdmin pada browser

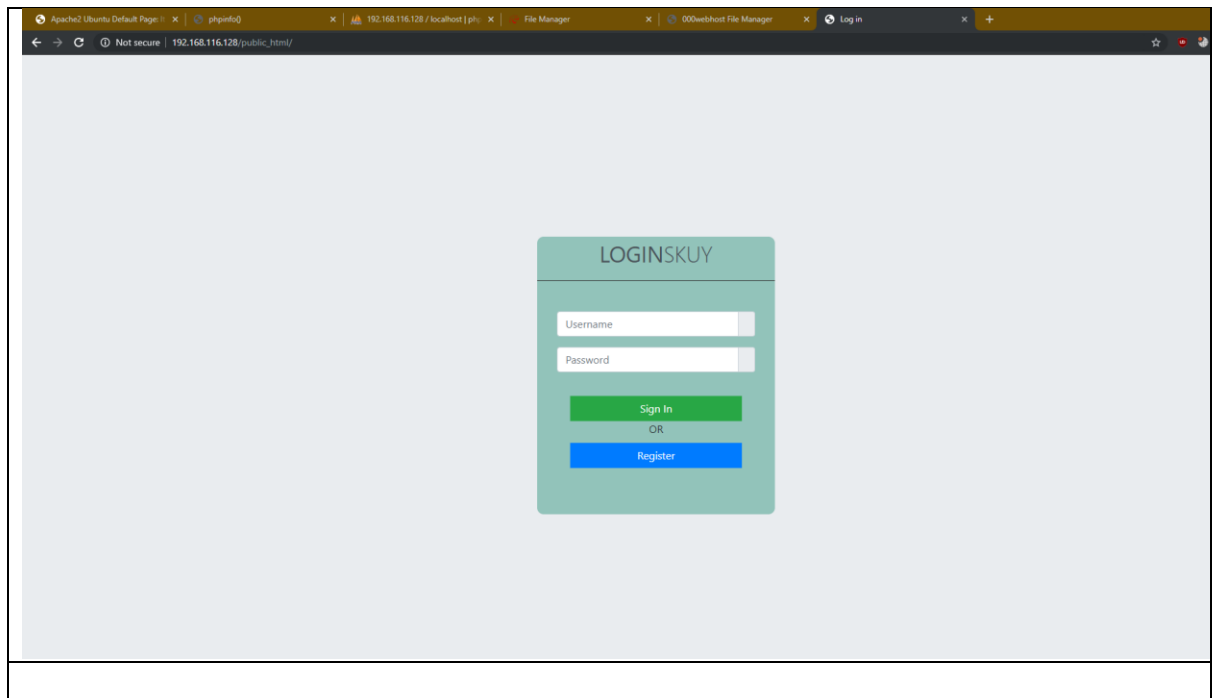


## 7. Deskripsikan parameter untuk memperbaiki login database (Flush Privileges)

```
$ sudo mysql-u root
Atau
$ sudo mysql -u root -p
UPDATE mysql.user SET plugin=
'mysql_native_password',authentication_string=PASSWORD('f*****')
WHERE User ='root'
Tulis http://192.168.116.128//phpmyadmin
LALU CEK DI BROWSER DENGAN MENULIS USERNAME ='root'
password='*****'
```

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





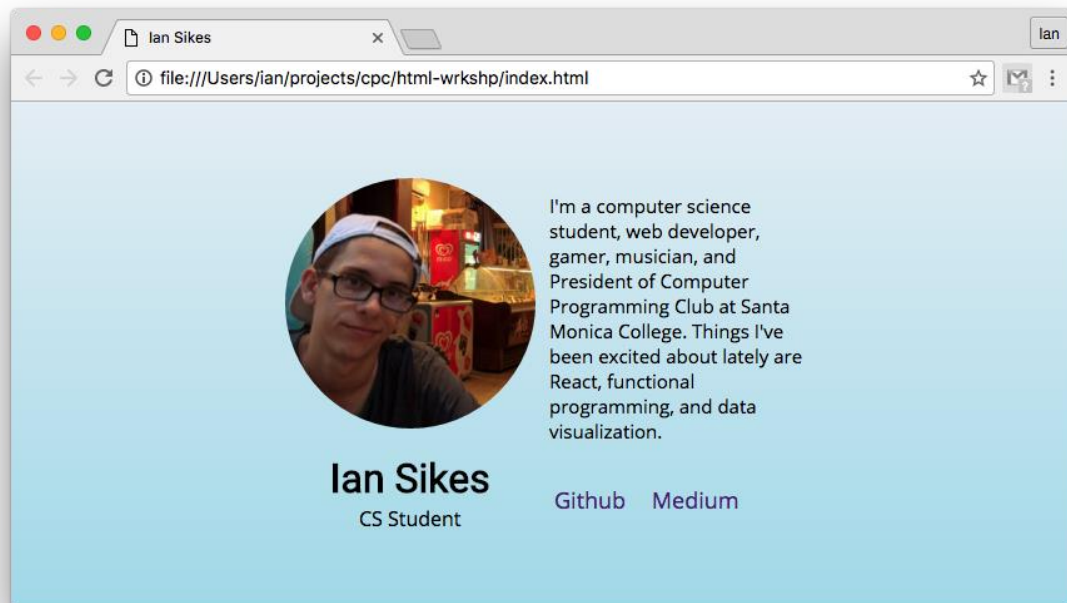
## **TUGAS BAGIAN KEDUA:**

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.

(tampilan situs pada browser)

### **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

**Adrian fathur setyawan/123170051**

**Praktikum TCC\_E/Teknik Informatika**

## **Instalasi dan Konfigurasi Layanan Hosting Dengan LAMPP**

### **Materi**

#### **1. Pengenalan LAMPP**

Komponen Lampp : PHP,mysql,Apache.

Untuk extensi file WMware yaitu VMware Virtual Machine configuration

