

Nama : Ni Putu Ayu Desianada Sri Citadewi

NIM : A12.2018.06116

Kelas : A12.6401U

Matkul: Pemograman Web

Instalasi Web Server

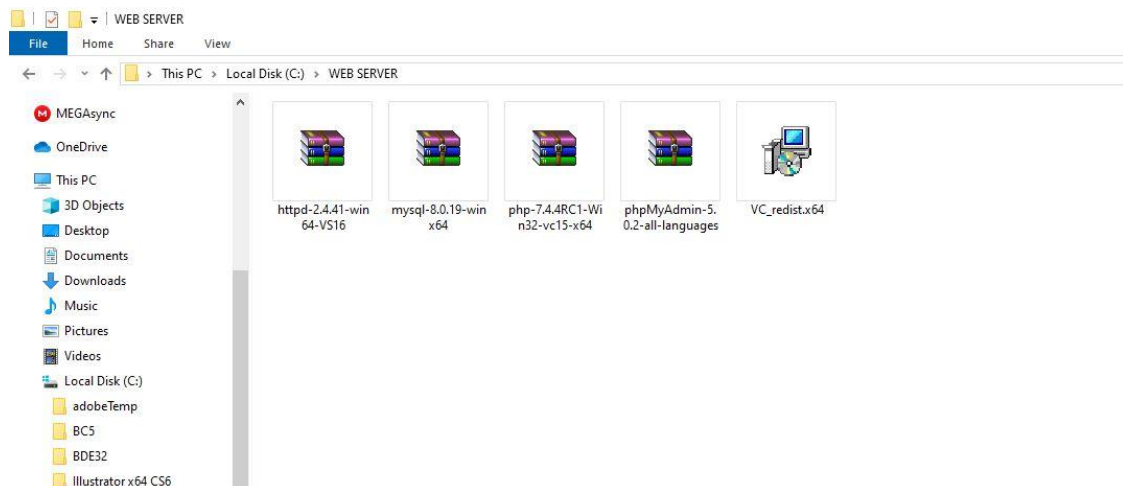
Tahap instalasi web server (instalasi harus urut):

1. Download Apache, MySQL, PHP, phpMyAdmin, dan Visual C++ Redistributable for Visual Studio 2015-2019 secara berurutan.

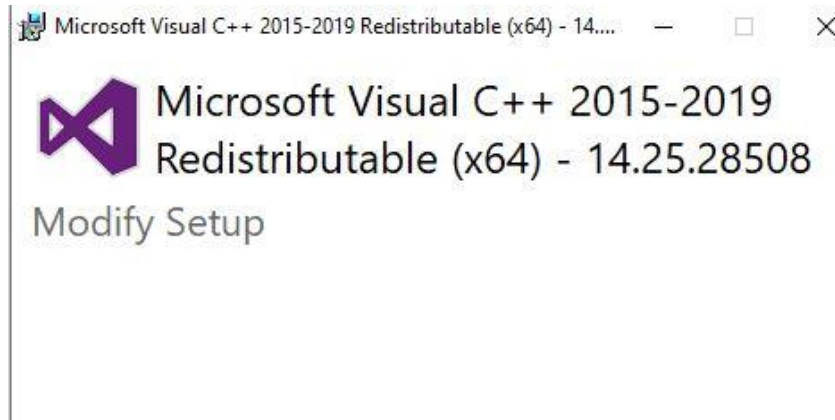
- Download Apache for Windows: <https://www.apachelounge.com/download/>
- Download PHP 7 for Windows (select Thread Safe): <http://windows.php.net/qa/>
- Download MySQL for Windows (select ZIP Archive): <http://dev.mysql.com/downloads/mysql/>
- Download phpMyAdmin: <https://www.phpmyadmin.net/>
- Download the latest Visual C++ Redistributable for Visual Studio 2015-2019: (direct link to download the 64-bit version, a direct link to the download of the 32-bit version).

Now we have files:

- httpd-2.4.29-Win64-VC15.zip
- php-7.2.0-Win32-VC15-x64.zip
- mysql-8.0.11-winx64.zip
- phpMyAdmin-4.7.7-all-languages.zip
- vc_redist.x64.exe



2. Instal Visual C++ Redistributable



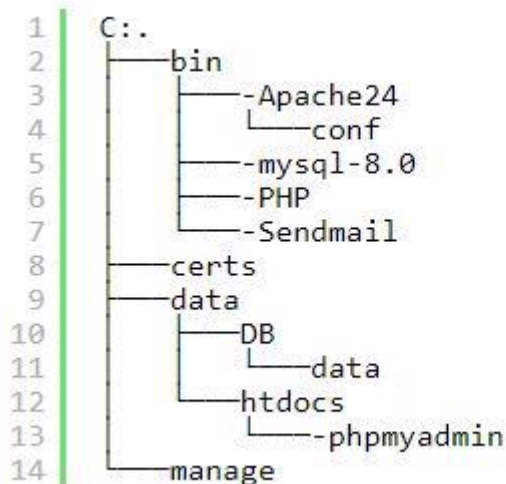
3. Create Folder yang dibutuhkan

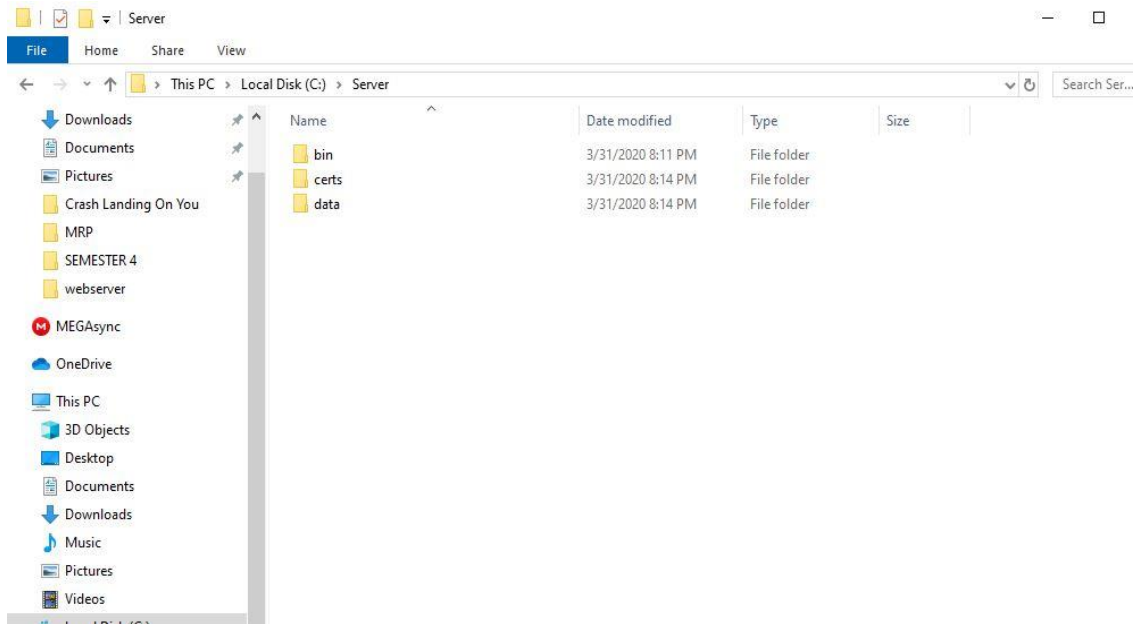
Dalam drive **C** buatlah directory **Server**, di dalamnya buatlah directory **bin** (yang nantinya akan berisi instalasi Apache, PHP, dan MySQL) dan directory **data** (lokasi website dan database kita).

Dalam directory **data** buatlah 2 folder

- **DB** (tempat penyimpanan database)
- **htdocs** (lokasi penyimpanan website)

Pohon urutan folder yang penting :





4. Instalasi dan Konfigurasi Apache

Ekstrak file Apache24.zip yang telah didownload ke **C:\Server\bin**, edit file **httpd.conf** seperti berikut :

```

1 | Define SRVROOT "c:/Apache24"
with
1 | Define SRVROOT "c:/Server/bin/Apache24"
replace
1 | #ServerName www.example.com:80
with
1 | ServerName localhost

replace
1 | DocumentRoot "${SRVROOT}/htdocs"
with
1 | DocumentRoot "c:/Server/data/htdocs/"
replace
1 | <Directory "${SRVROOT}/htdocs">
with
1 | <Directory "c:/Server/data/htdocs/">
replace
1 | DirectoryIndex index.html
with
1 | DirectoryIndex index.php index.html index.htm

```

replace

```
1 # AllowOverride controls what directives may be placed in .htaccess files.
2 # It can be "All", "None", or any combination of the keywords:
3 #   AllowOverride FileInfo AuthConfig Limit
4 #
5 AllowOverride None
```

with

```
1 # AllowOverride controls what directives may be placed in .htaccess files.
2 # It can be "All", "None", or any combination of the keywords:
3 #   AllowOverride FileInfo AuthConfig Limit
4 #
5 AllowOverride All
```

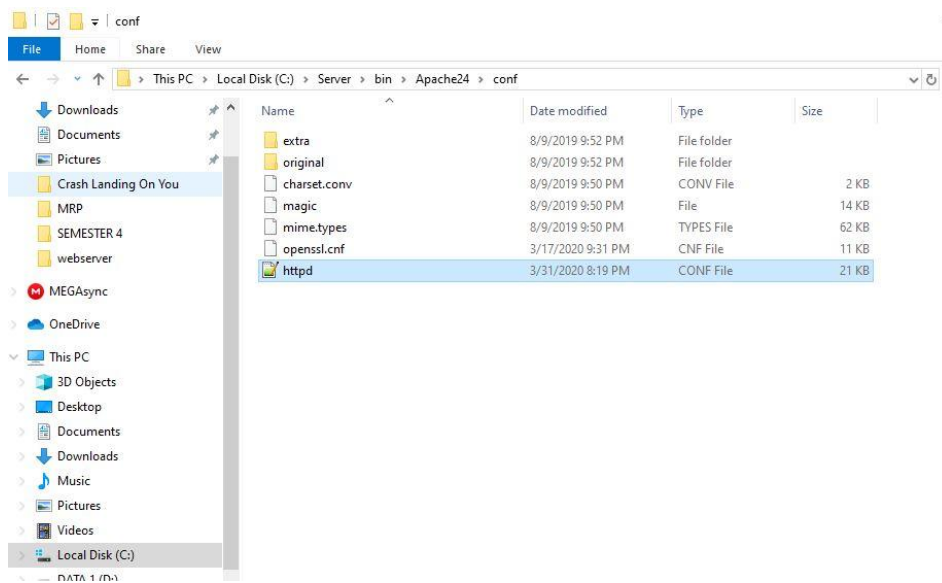
and replace

```
1 #LoadModule rewrite_module modules/mod_rewrite.so
```

with

```
1 LoadModule rewrite_module modules/mod_rewrite.so
```

Simpan dan tutup file



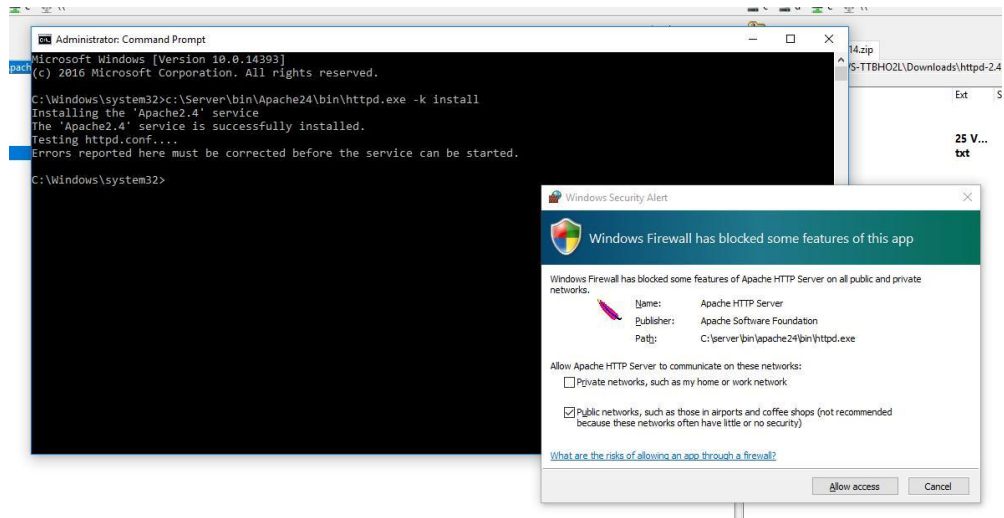
Apache konfigurasi telah complete!

Buka Command prompt (run as Administration), dapat dengan (**Win + X**) pilih **Windows PowerShell(admin)**. Jalankan command prompt dengan langkah :

COPY + PASTE

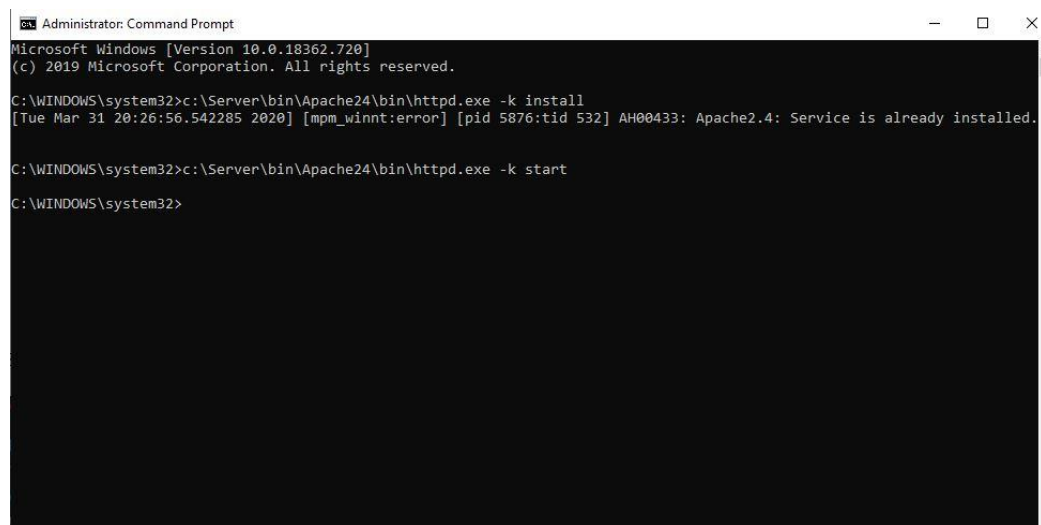
```
c:\Server\bin\Apache24\bin\httpd.exe -k install
```

ke dalam command prompt, lalu tekan ENTER

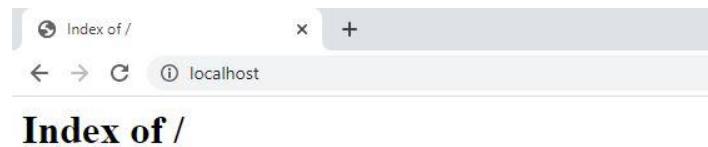


Jika keluar Firewall prompt tekan **“Allow Access”**. Juga copy dan paste

`c:\Server\bin\Apache24\bin\httpd.exe -k start`



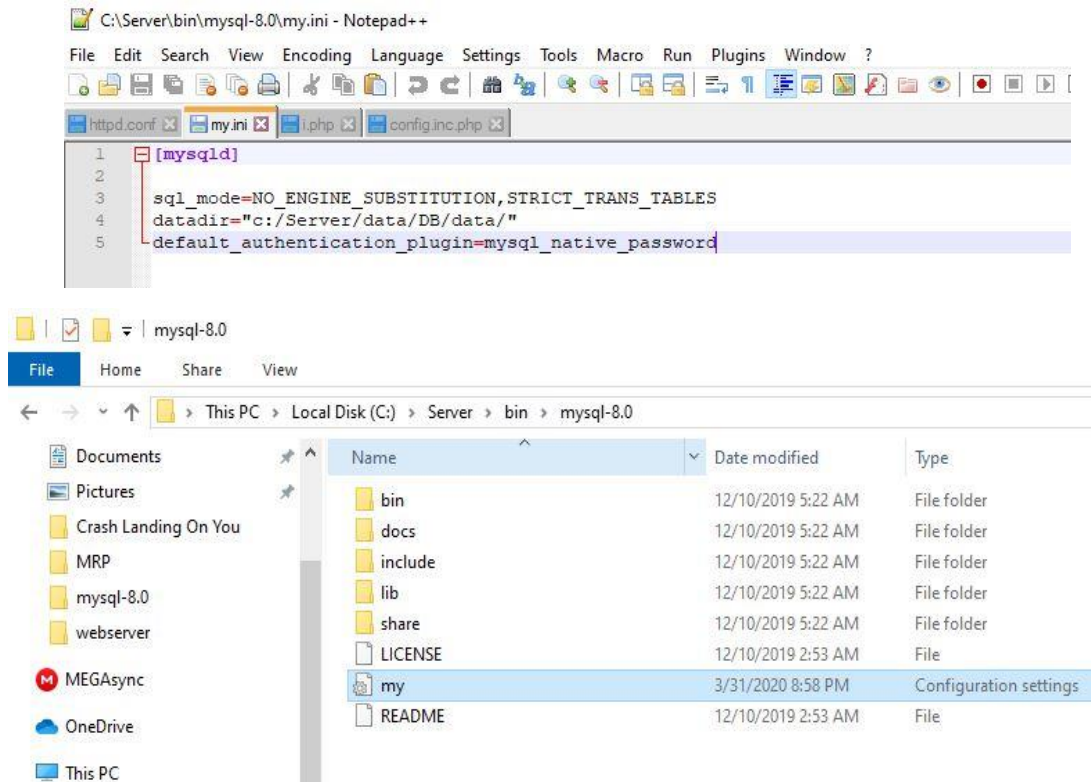
Ketik <http://localhost> pada browser dan akan keluar tampilan



Tampilan ini merupakan tanda apabila sudah berhasil terinstal dan berjalan

5. Instalasi dan Konfigurasi MySQL 8.0

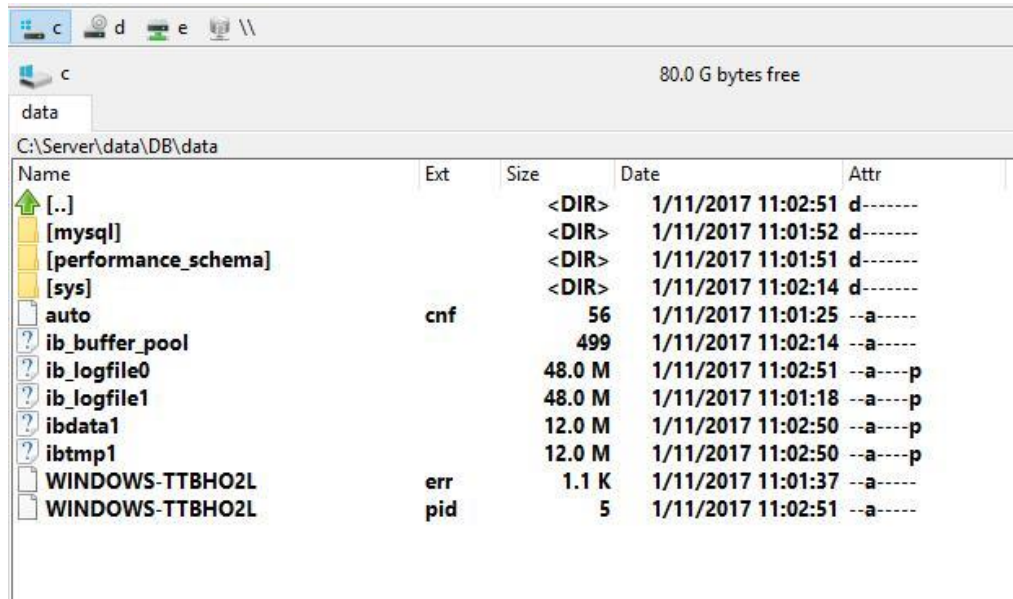
Ekstrak MySQL .zip ke dalam directory **c:\Server\bin**. Rename folder menjadi **mysql 8.0**. Lalu bulatlah file **my.ini** menggunakan notepad++ dengan isi :



Lalu install MySQL melalui command prompt dengan :

```
1 C:\Server\bin\mysql-8.0\bin\mysqld --initialize-insecure --user=root
2 C:\Server\bin\mysql-8.0\bin\mysqld --install
3 net start mysql
```

Lalu dalam **C:\Server\data\DB\data** akan keluar beberapa file seperti :



Name	Ext	Size	Date	Attr
[..]		<DIR>	1/11/2017 11:02:51	d-----
[mysql]		<DIR>	1/11/2017 11:01:52	d-----
[performance_schema]		<DIR>	1/11/2017 11:01:51	d-----
[sys]		<DIR>	1/11/2017 11:02:14	d-----
auto	cnf	56	1/11/2017 11:01:25	--a----
ib_buffer_pool		499	1/11/2017 11:02:14	--a----
ib_logfile0		48.0 M	1/11/2017 11:02:51	--a---p
ib_logfile1		48.0 M	1/11/2017 11:01:18	--a---p
ibdata1		12.0 M	1/11/2017 11:02:50	--a---p
ibtmp1		12.0 M	1/11/2017 11:02:50	--a---p
WINDOWS-TTBHO2L	err	1.1 K	1/11/2017 11:01:37	--a----
WINDOWS-TTBHO2L	pid	5	1/11/2017 11:02:51	--a----

Proses Instalasi dan konfigurasi telah selesai.

6. Instalasi PHP 7

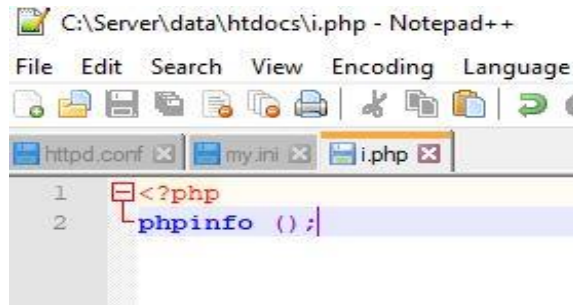
Buat folder PHP di dalam **c:\Server\bin** dan copy semua content yang ada di dalam php-7.4.4RC1-Win32-vc15-x64. Buka kembali file **httpd.config** dan tambahkan 3 line text di bagian paling bawah seperti berikut :

```
530 #      starting without SSL on platforms with no /dev/random equivalent
531 #      but a statically compiled-in mod_ssl.
532 #
533 <IfModule ssl_module>
534 SSLRandomSeed startup builtin
535 SSLRandomSeed connect builtin
536 </IfModule>
537
538 PHPIniDir "C:/Server/bin/PHP"
539 AddHandler application/x-httpd-php .php
540 LoadModule php7_module "C:/Server/bin/PHP/php7apache2_4.dll"
541
```

Restart Apache di cmd dengan :

```
c:\Server\bin\Apache24\bin\httpd.exe -k restart
```


lalu buat file **i.php** disimpan **c:\Server\data\htdocs** dengan notepad++ dengan isi :



```
1 <?php
2 phpinfo ();
```

Bukalah **i.php** pada localhost (<http://localhost/iphp>) pada browser sehingga keluar tampilan :

localhost/i.php

PHP Version 7.4.4RC1	
System	Windows NT DESKTOP-6LD3Q1M 10.0 build 18362 (Windows 10) AMD64
Build Date	Mar 3 2020 14:18:38
Compiler	Visual C++ 2017
Architecture	x64
Configure Command	cmd /c "cd /d %~dp0 & phpize --enable-snapshot-build --enable-debug-pack --with-pdo-oci=c:\php-snap-build\deps_aux\oracle\64\instantclient_12_1\sdk\shared --with-oci8-12c=c:\php-snap-build\deps_aux\oracle\64\instantclient_12_1\sdk\shared --enable-object-out-dir=.obj --enable-com-dotnet=shared --without-analyzer --with-pgo"
Server API	Apache 2.0 Handler
Virtual Directory Support	enabled
Configuration File (php.ini) Path	C:\WINDOWS
Loaded Configuration File	(none)
Scan this dir for additional .ini files	(none)
Additional .ini files parsed	(none)
PHP API	20190902
PHP Extension	20190902

Menandakan php sudah berhasil terinstal dan running. Lalu pada **C:\Server\bin\PHP** Terdapat file **php.ini-development**, rename file tersebut menjadi **php.ini** dan edit menggunakan notepad++ seperti :

```
1 ; extension_dir = "ext"
```

and replace it with

```
1 extension_dir = "C:\Server\bin\PHP\ext\"
```


Now find the group of strings:

```
1 ;extension=bz2
2 ;extension=curl
3 ;extension=fileinfo
4 ;extension=gd2
5 ;extension=gettext
6 ;extension=gmp
7 ;extension=intl
8 ;extension=imap
9 ;extension=interbase
10 ;extension=ldap
11 ;extension=mbstring
12 ;extension=exif ; Must be after mbstring as it depends on it
13 ;extension=mysqli
14 ;extension=oci8_12c ; Use with Oracle Database 12c Instant Client
15 ;extension=openssl
16 ;extension=pdo_firebird
17 ;extension=pdo_mysql
18 ;extension=pdo_oci
19 ;extension=pdo_odbc
20 ;extension=pdo_pgsql
21 ;extension=pdo_sqlite
22 ;extension=pgsql
23 ;extension=shmop
```

UBAH MENJADI

and replace it with

```
1 extension=bz2
2 extension=curl
3 extension=fileinfo
4 extension=gd2
5 extension=gettext
6 extension=gmp
7 extension=intl
8 extension=imap
9 ;extension=interbase
10 extension=ldap
11 extension=mbstring
12 extension=exif ; Must be after mbstring as it depends on it
13 extension=mysqli
14 ;extension=oci8_12c ; Use with Oracle Database 12c Instant Client
15 extension=openssl
16 ;extension=pdo_firebird
17 extension=pdo_mysql
18 ;extension=pdo_oci
19 extension=pdo_odbc
20 extension=pdo_pgsql
21 extension=pdo_sqlite
22 extension=pgsql
23 extension=shmop
```

UBAH

```
1 ;extension=soap
2 ;extension=sockets
3 ;extension=sqlite3
4 ;extension=tidy
5 ;extension=xmlrpc
6 ;extension=xsl
```

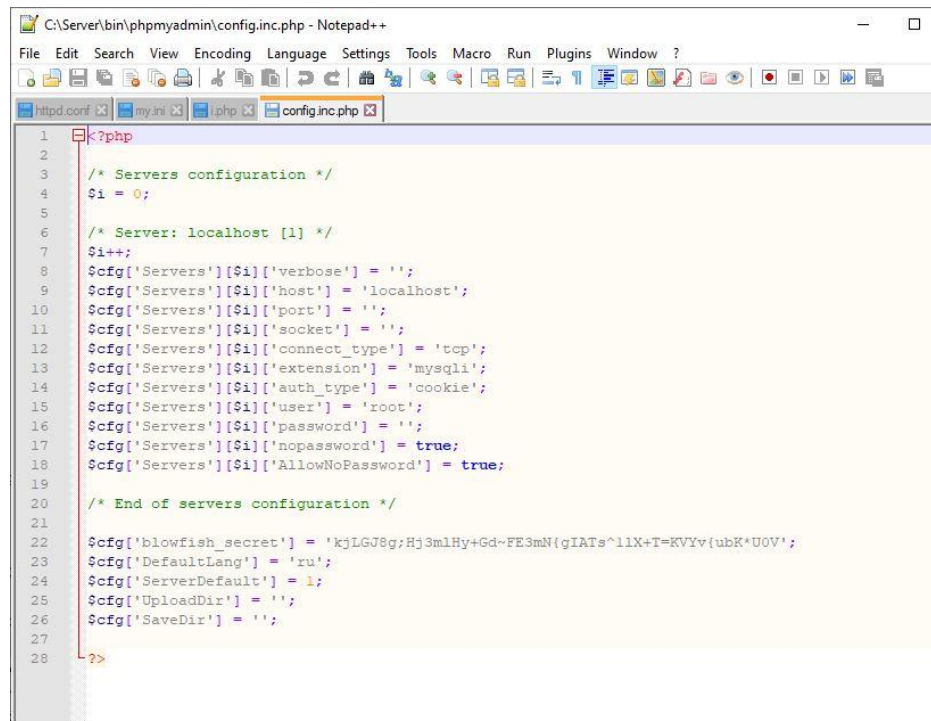
MENJADI

```
1 extension=soap
2 extension=sockets
3 extension=sqlite3
4 extension=tidy
5 extension=xmlrpc
6 extension=xsl
```

Save dan close file edit. Lalu restart Apache

7. Instalasi dan konfigurasi phpMyAdmin

Dalam `c:\Server\data\htdocs\` copy semua content yang ada didalam `phpMyAdmin-5.0.2-all-languages.zip`. dan rename folder `phpMyAdmin-5.0.2-all-languages` menjadi **phpmyadmin**. Butlah file **config.inc.php** di notepad++ dengan isi :



```
C:\Server\bin\phpmyadmin\config.inc.php - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
httpd.conf my.ini php config.inc.php
1 k?php
2
3 /* Servers configuration */
4 $i = 0;
5
6 /* Server: localhost [1] */
7 $i++;
8 $cfg['Servers'][$i]['verbose'] = '';
9 $cfg['Servers'][$i]['host'] = 'localhost';
10 $cfg['Servers'][$i]['port'] = '';
11 $cfg['Servers'][$i]['socket'] = '';
12 $cfg['Servers'][$i]['connect_type'] = 'tcp';
13 $cfg['Servers'][$i]['extension'] = 'mysqli';
14 $cfg['Servers'][$i]['auth_type'] = 'cookie';
15 $cfg['Servers'][$i]['user'] = 'root';
16 $cfg['Servers'][$i]['password'] = '';
17 $cfg['Servers'][$i]['nopassword'] = true;
18 $cfg['Servers'][$i]['AllowNoPassword'] = true;
19
20 /* End of servers configuration */
21
22 $cfg['blowfish_secret'] = 'kjLGJ8g;Hj3m1Hy+Gd~FE3mN{gIATs^11X+T=KVYv{ubK^UOV';
23 $cfg['DefaultLang'] = 'ru';
24 $cfg['ServerDefault'] = 1;
25 $cfg['UploadDir'] = '';
26 $cfg['SaveDir'] = '';
27
28 ?>
```

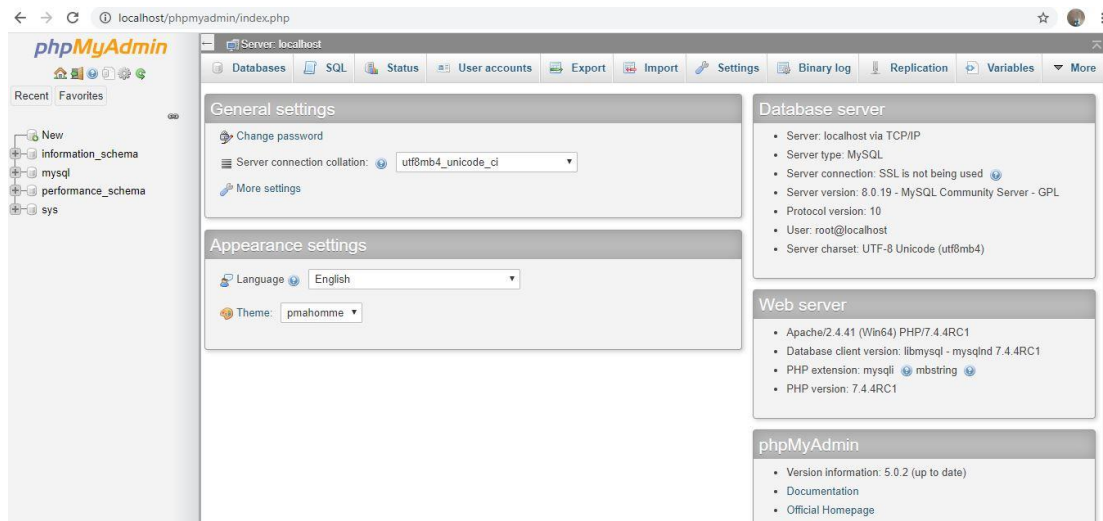
SAVE dan CLOSE

Buka localhost/phpmyadmin pada browser dan akan muncul tampilan :



The image shows the phpMyAdmin login interface. At the top, there is a logo for phpMyAdmin and the text "Welcome to phpMyAdmin". Below this, there is a "Language" section with a dropdown menu set to "English". Underneath, there is a "Log in" section with a "Username:" field containing the text "root" and a "Password:" field which is empty. A "Go" button is located at the bottom right of the login section.

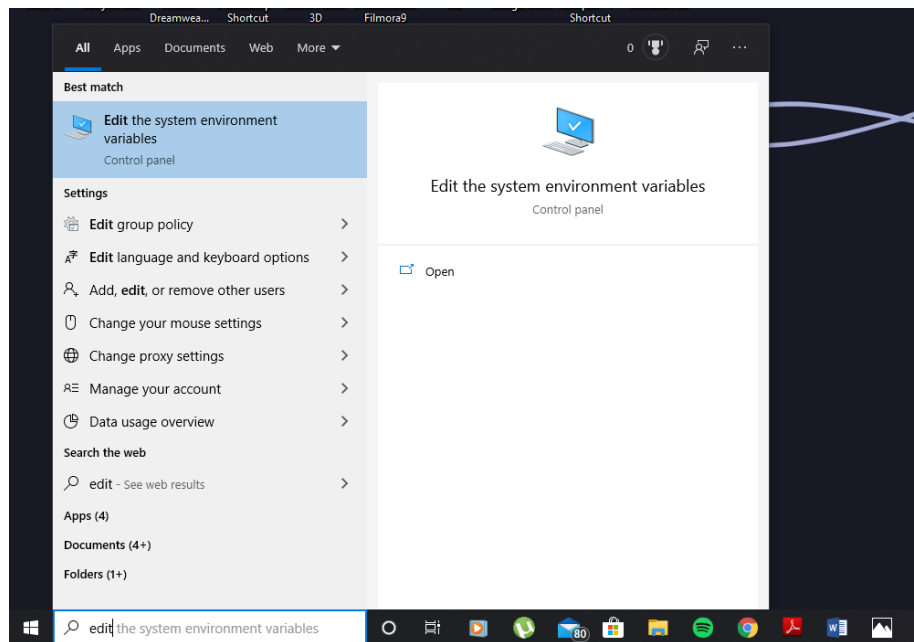
Login dengan username **root** dan password tidak perlu diisi, klik go lalu akan muncul tampilan seperti :



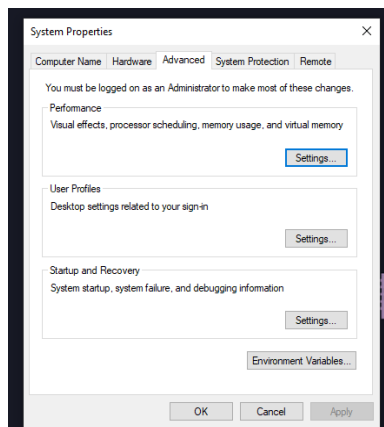
phpMyAdmin telah terinstal dan siap digunakan

8. Menambahkan folder php ke system path window
Tutorial ini berguna agar tidak sering terjadi error setiap menjalankan Apache. Dengan cara :

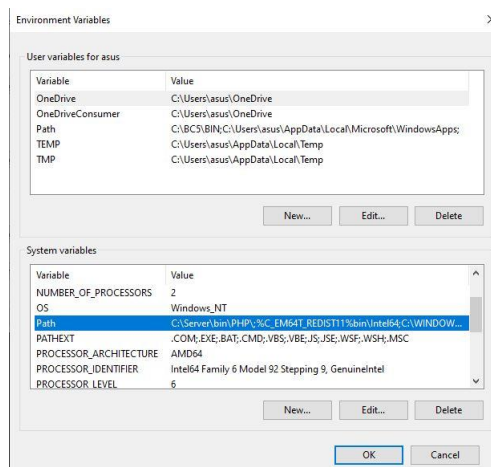
Ketik pada widows search “edit the system environment variable” dan open.



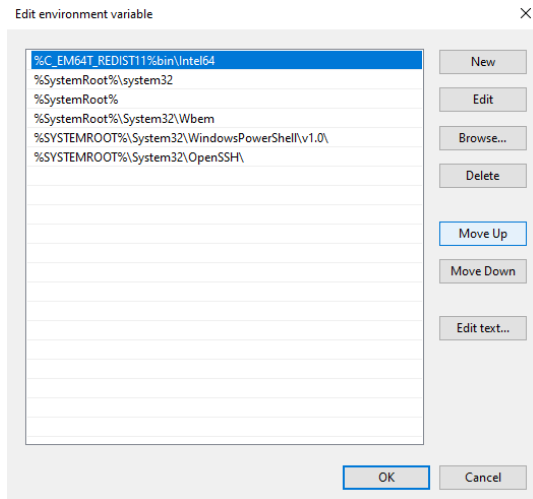
Klik “environment variable”



Pada **System Variable** klik **path** lalu klik **edit**



Klik **new** lalu ketik **C:\Server\bin\PHP**. Pindahkan record yang dibuat ke urutan paling atas dengan **move up**, lalu OK dan restart server(apache) dengan **cmp**.



Demikian tutorial membuat web server dengan referensi dari website <https://miloserdov.org/?p=55>. Sumber foto sebagian berasal dari website tersebut.