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Pemrograman Web

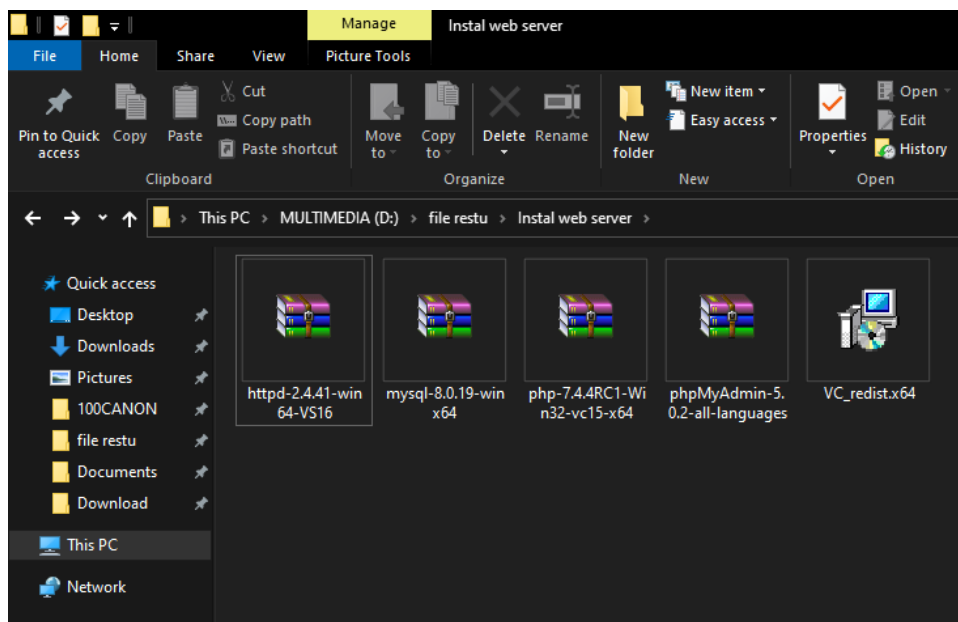
Instalasi Web Server (harusurut dan sesuai):

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

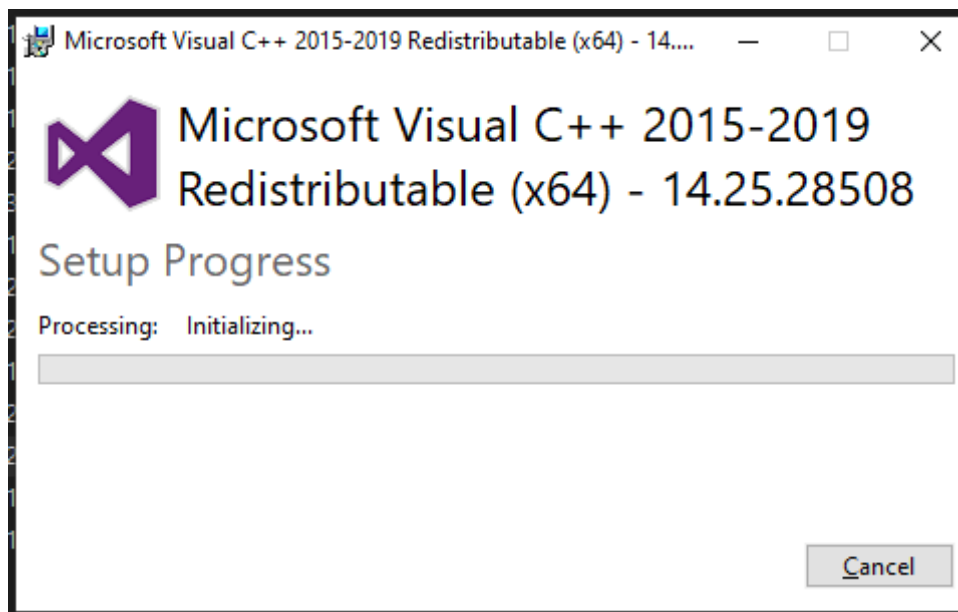
- Download Apache for Windows: <https://www.apachelounge.com/download/>
- Download PHP 7 for Windows (select Thread Safe): <http://windows.php.net/qa/>
- Download MySQL for Windows (select ZIP Archive): <http://dev.mysql.com/downloads/mysql/>
- Download phpMyAdmin: <https://www.phpmyadmin.net/>
- Download 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. Instalasi Visual C++ Redistributable



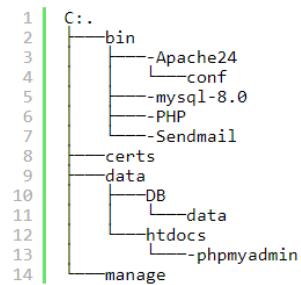
3. Membuat folder yang dibutuhkan

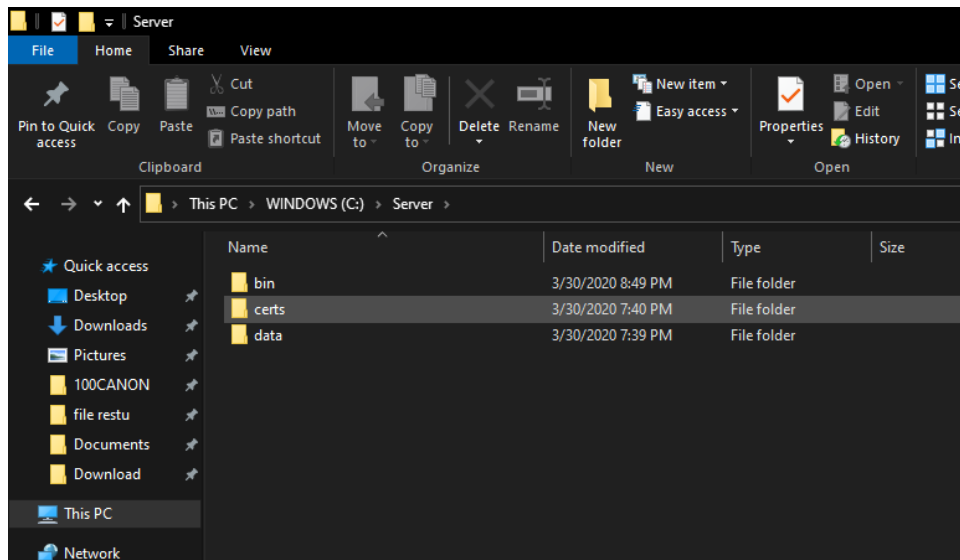
On the drive **C** create a directory **Server**; inside it create the **bin** directory (we will install Apache, PHP, and MySQL there) and **data** directory (our websites and databases will be located there).

We continue our preparations. In the **data** directory create two folders:

- **DB** (database will be stored here)
- **htdocs** (websites will be stored here)

Tree of the important folders that are mentioned in this manual:





4. Instalasi dan konfigurasi Apache 2.4

Ekstrak zip apache 2.4 yg sudah didownload ke C:\Server\bin\, lalu edit file httpd.conf sebagai berikut:

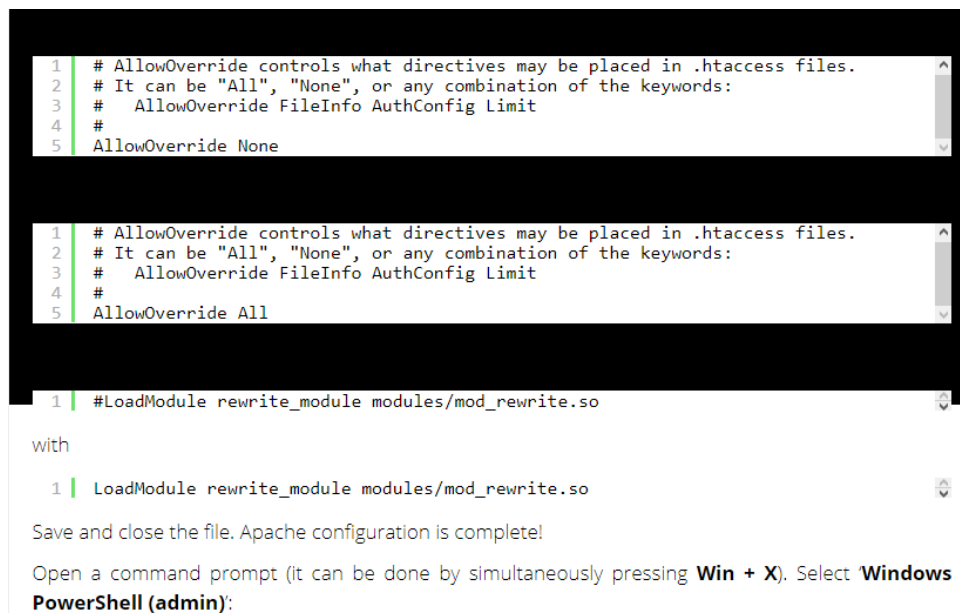
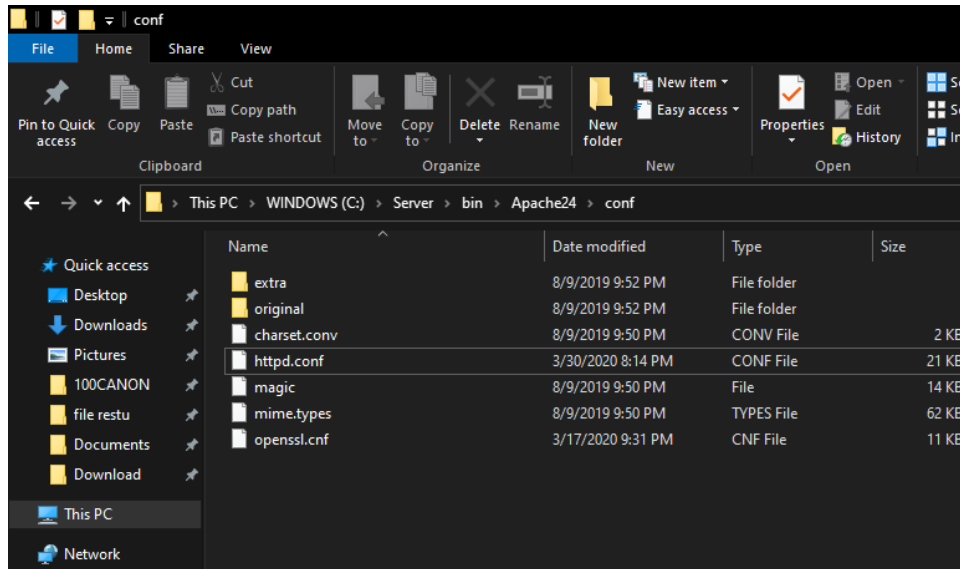
```

1 | Define SRVROOT "c:/Apache24"

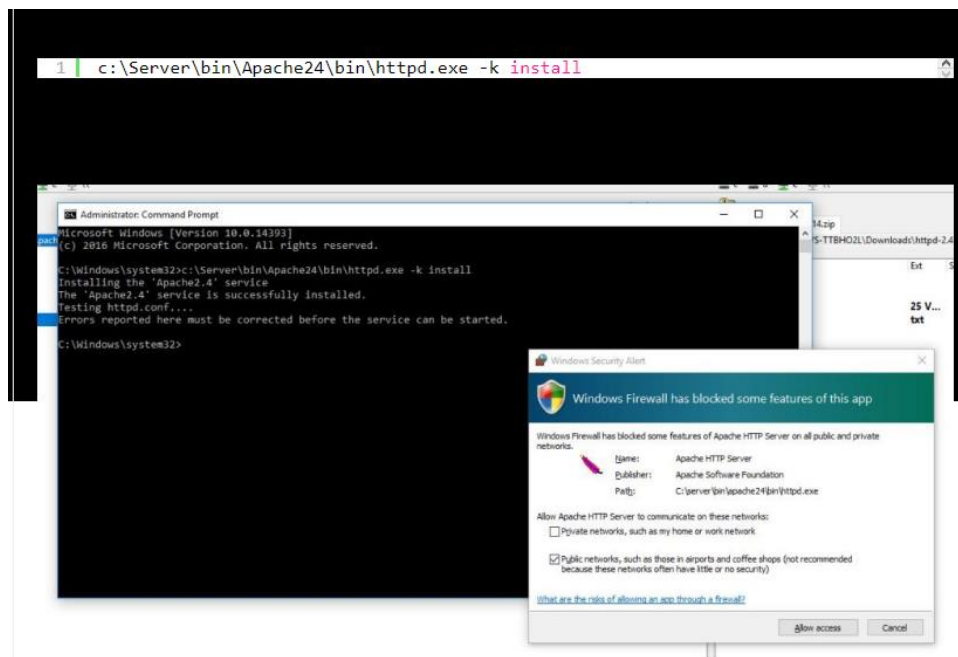
1 | Define SRVROOT "c:/Server/bin/Apache24"

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

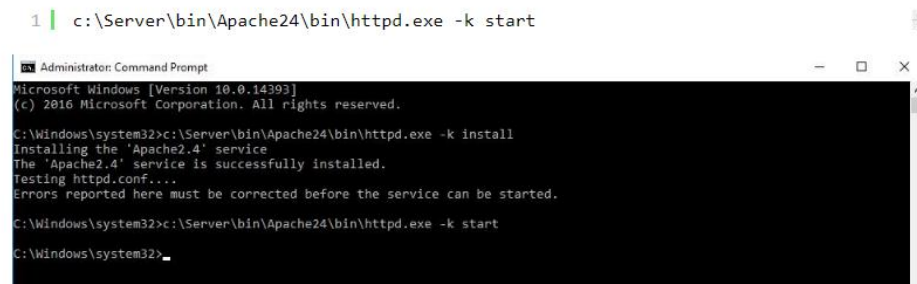
```



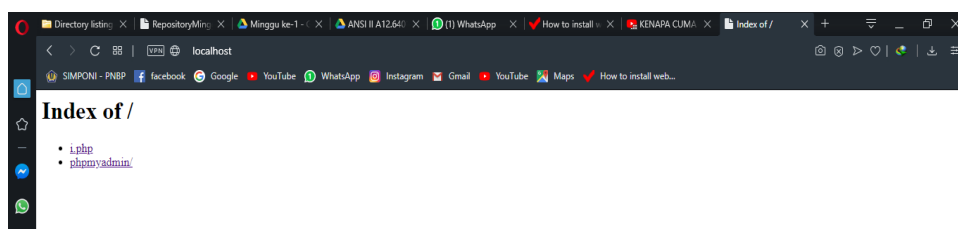
Lalu, jalankan command prompt/powershell (run as admin), dan ikuti langkah:



Also copy-paste and run:



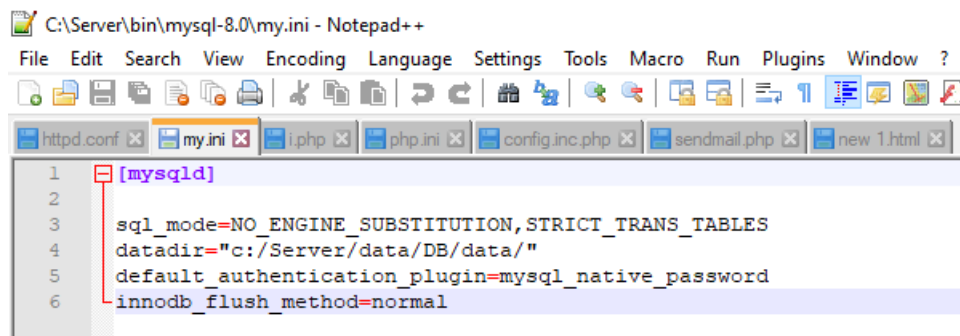
Ketik localhost di browser:



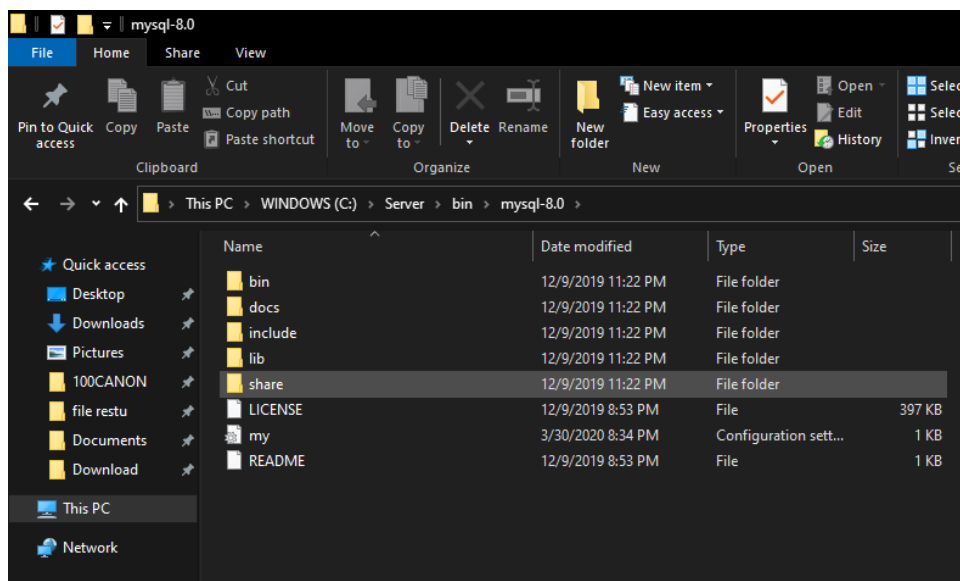
Kalau tampilan seperti diatas, maka apache sudah terinstal dan berjalan.

5. Instalasi dan konfigurasi MySQL 8.0

Ekstrak zip MySQL ke direktori C:\Server\bin\ dan rename folder menjadi mysql-8.0, lalu buatlah file my.ini menggunakan notepad++ yang berisi:



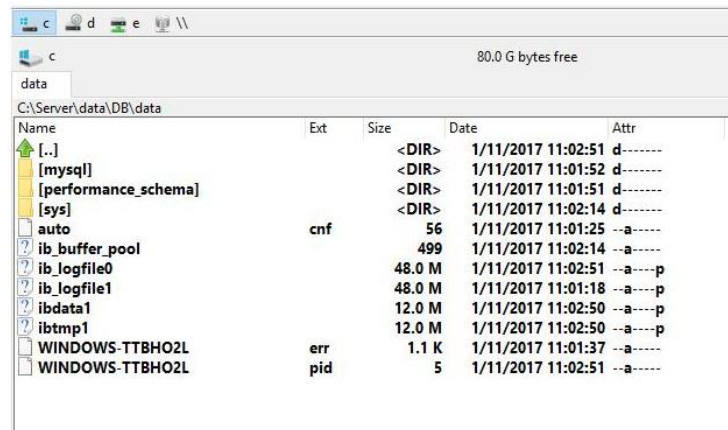
```
C:\Server\bin\mysql-8.0\my.ini - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
httpd.conf my.ini i.php php.ini config.inc.php sendmail.php new 1.html
1 [mysqld]
2
3 sql_mode=NO_ENGINE_SUBSTITUTION,STRICT_TRANS_TABLES
4 datadir="c:/Server/data/DB/data/"
5 default_authentication_plugin=mysql_native_password
6 innodb_flush_method=normal
```



Lalu instal mysql melalui cmd seperti berikut:

```
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
```

Once the process completed, inside the **C:\Server\data\DB\data** folder automatically generated files should appear:



From now MySQL service will start automatically with every Windows boot.

Proses instalasi dan konfigurasi MySQL selesai.

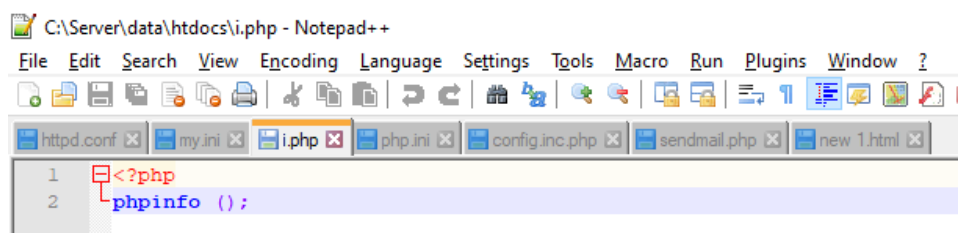
6. Instalasi dan konfigurasi PHP 7

Buat folder PHP di C:\Server\bin\ dan ekstrak zip php7 ke folder tersebut. Buka kembali file httpd.conf dan tambahkan 3 line text berikut:

```
536 </IfModule>
537
538
539 PHPIniDir "C:/Server/bin/PHP"
540 AddHandler application/x-httpd-php .php
541 LoadModule php7_module "C:/Server/bin/PHP/php7apache2_4.dll"
542
```

Normal text file

Restart apache dengan : "c:\Server\bin\Apache24\bin\httpd.exe -k restart" di cmd, lalu buat file i.php menggunakan notepad++ di C:\Server\data\htdocs\ yang berisi:



System	Windows NT DESKTOP-3Q215CN 10.0 build 18363 (Windows 10) AMD64
Build Date	Mar 3 2020 14:18:38
Compiler	Visual C++ 2017
Architecture	x64
Configure Command	cmdscript /nologo /e:script configure.js "--enable-snapshot-build"--enable-debug-pack"--with-pdo-odbc"/php-snap-build/deps_au/oracle/v64/instancient_12_t1sdk_shared"--with-oc8-12c/c:/php-snap-build/deps_au/oracle/v64/instancient_12_t1sdk_shared"--enable-object-out-dir=/obj"--enable-comdnet-shared"--without-analyzer"--with-pgsql
Server API	Apache 2.0 Handler
Virtual Directory Support	enabled
Configuration File (php.ini) Path	C:\WINDOWS
Loaded Configuration File	C:\Serverbin\PHP\php.ini
Scan this dir for additional .ini files	(none)
Additional .ini files parsed	(none)
PHP API	20190902
PHP Extension	20190902
Zend Extension	320190902
Zend Extension Build	API320190902.TS.VC15
PHP Extension Build	API320190902.TS.VC15
Debug Build	no
Thread Safety	enabled
Thread API	Windows Threads
Zend Signal Handling	disabled
Zend Memory Manager	enabled
Zend Multibyte Support	provided by mbstring
PHP Compiler	x86_64-mingw32

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

and replace it with

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

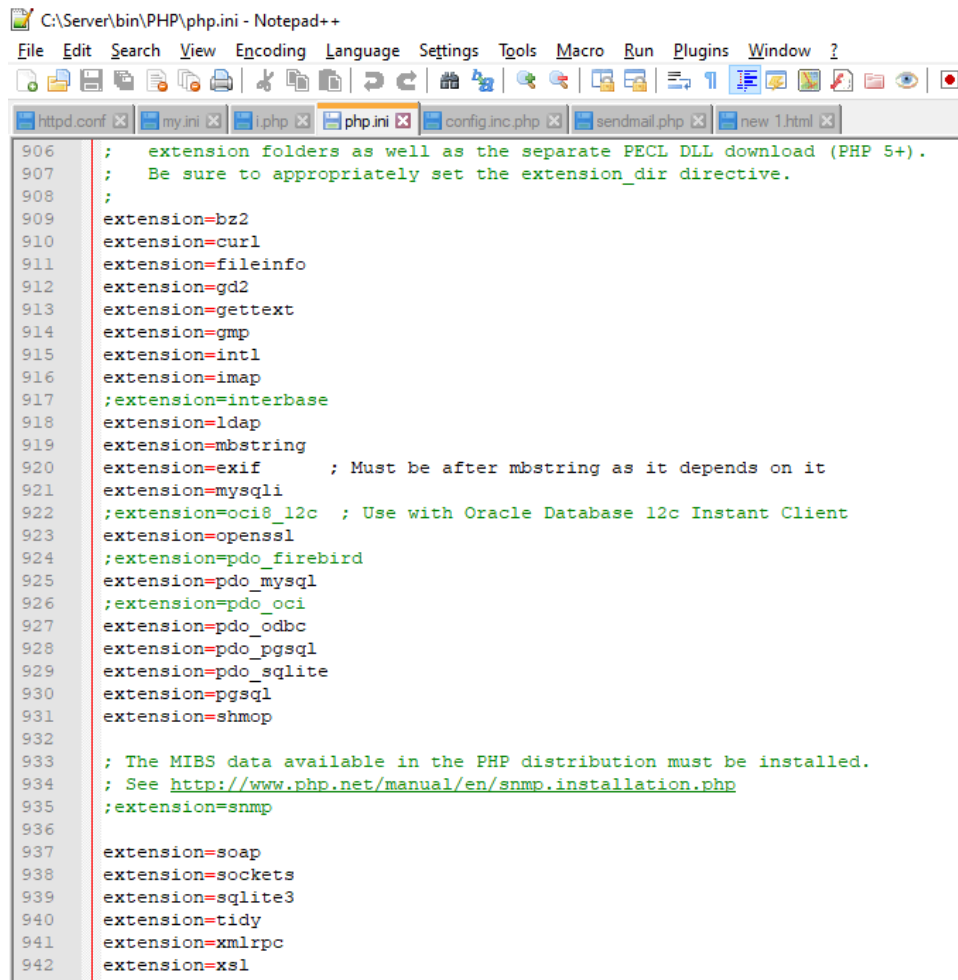
Now find the group of strings:

```
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=mysqli ; Must be after mbstring as it depends on it
13 | ;extension=mysql
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_sql
21 | ;extension=pdo_sqlite
22 | ;extension=pgsql
23 | ;extension=shmop
```

```
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
```

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

```
1 extension=soap
2 extension=sockets
3 extension=sqllite3
4 extension=tidy
5 extension=xmlrpc
6 extension=xsl
```

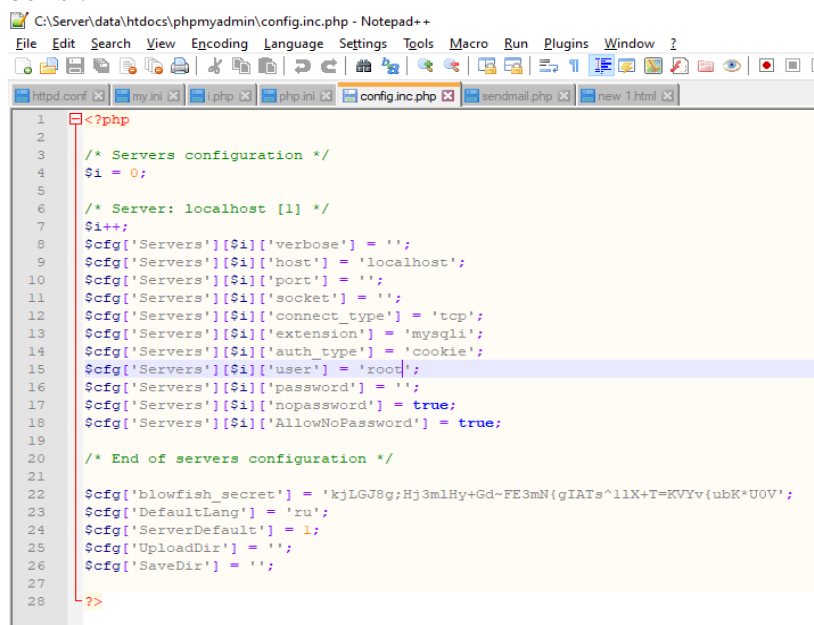



```
906 ; extension folders as well as the separate PECL DLL download (PHP 5+).
907 ; Be sure to appropriately set the extension_dir directive.
908 ;
909 extension=bz2
910 extension=curl
911 extension=fileinfo
912 extension=gd2
913 extension=gettext
914 extension=gmp
915 extension=intl
916 extension=imap
917 ;extension=interbase
918 extension=ldap
919 extension=mbstring
920 extension=exif ; Must be after mbstring as it depends on it
921 extension=mysqli
922 ;extension=oci8_12c ; Use with Oracle Database 12c Instant Client
923 extension=openssl
924 ;extension=pdo_firebird
925 extension=pdo_mysql
926 ;extension=pdo_oci
927 extension=pdo_odbc
928 extension=pdo_pgsql
929 extension=pdo_sqlite
930 extension=pgsql
931 extension=shmop
932
933 ; The MIBS data available in the PHP distribution must be installed.
934 ; See http://www.php.net/manual/en/snmp.installation.php
935 ;extension=snmp
936
937 extension=soap
938 extension=sockets
939 extension=sqlite3
940 extension=tidy
941 extension=xmlrpc
942 extension=xsl
```

Save dan tutup editor, lalu restart Apache.

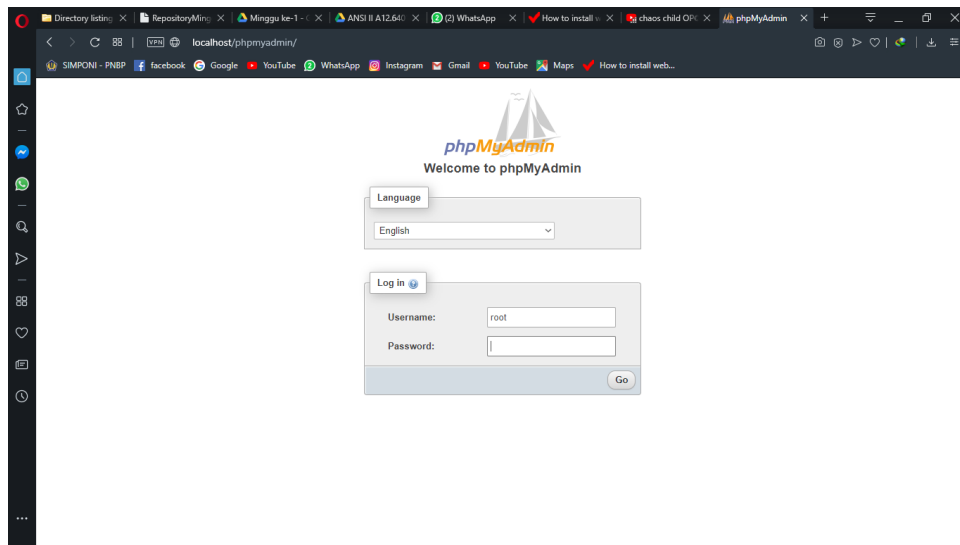
7. Instalasi dan konfigurasi phpMyAdmin

Ekstak zip phpMyAdmin ke direktori C:\Server\data\htdocs\ dan rename folder menjadi phpmyadmin. Buatlah file config.inc.php menggunakan notepad++ yang berisi:

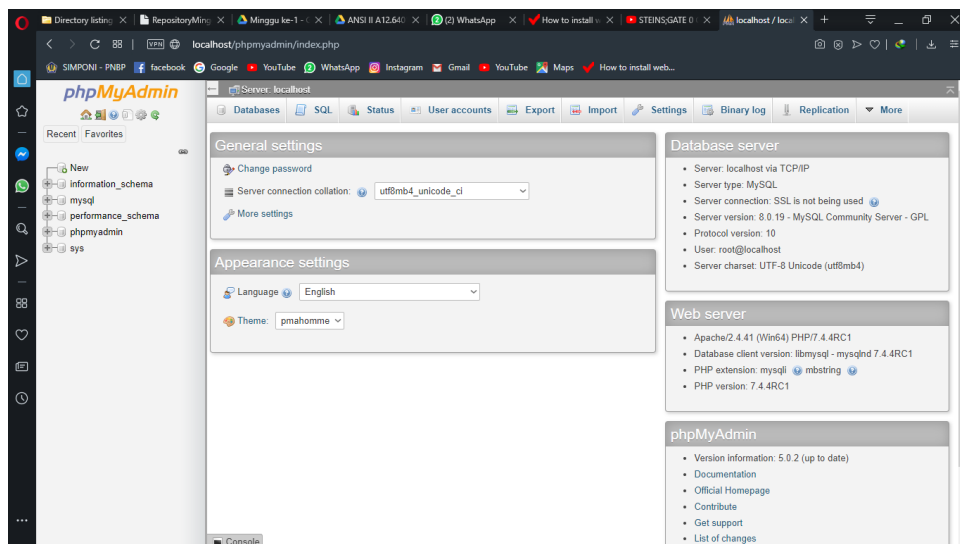


```
1 <?php
2
3 /* Servers configuration */
4 $i = 0;
5
6 /* Server: localhost [1] */
7 $i++;
8 $cfg['Servers'][$i]['verbose'] = '';
9 $cfg['Servers'][$i]['host'] = 'localhost';
10 $cfg['Servers'][$i]['port'] = '';
11 $cfg['Servers'][$i]['socket'] = '';
12 $cfg['Servers'][$i]['connect_type'] = 'tcp';
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;Hj3mlHy+Gd~FE3mN{gIATs*1lX+T=KVYv{ubK*U0V';
23 $cfg['DefaultLang'] = 'ru';
24 $cfg['ServerDefault'] = 1;
25 $cfg['UploadDir'] = '';
26 $cfg['SaveDir'] = '';
27
28 ?>
```

Lalu, buka phpmyadmin melalui localhost, dan akan muncul tampilan:



Login menggunakan username “root” tanpa password, dan akan tertampil:

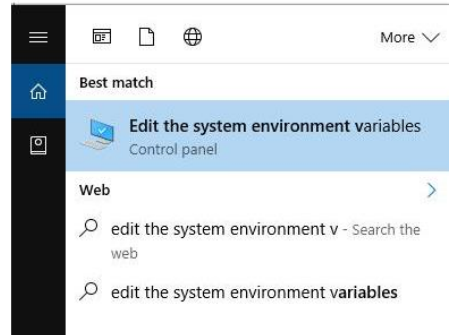


phpMyAdmin siap digunakan.

8. Menambah folder PHP ke System Path Windows

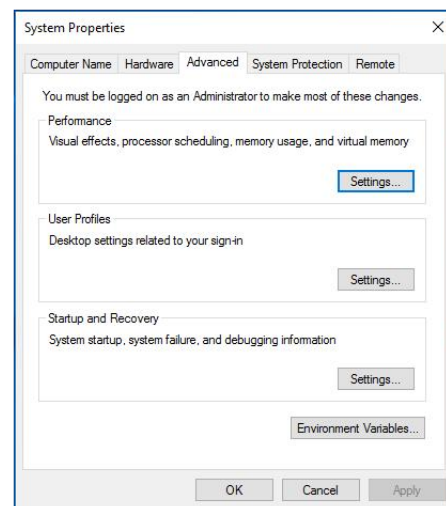
Menambahkan folder PHP ke system path agar tidak muncul eror setiap menjalankan Apache. Dapat dilakukan dengan cara sebagai berikut:

- Tekan tombol windows di keyboard, lalu cari “edit the system environment variables” dan buka setting tersebut

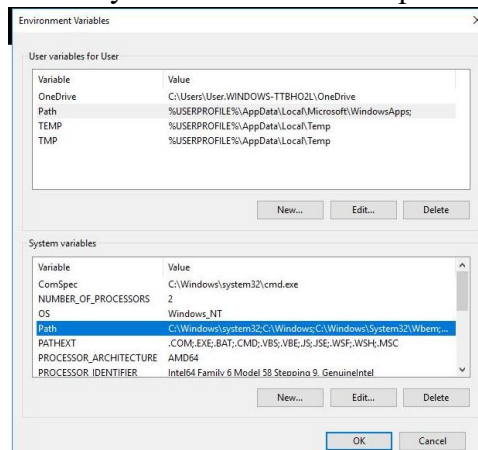


- Click environment variables

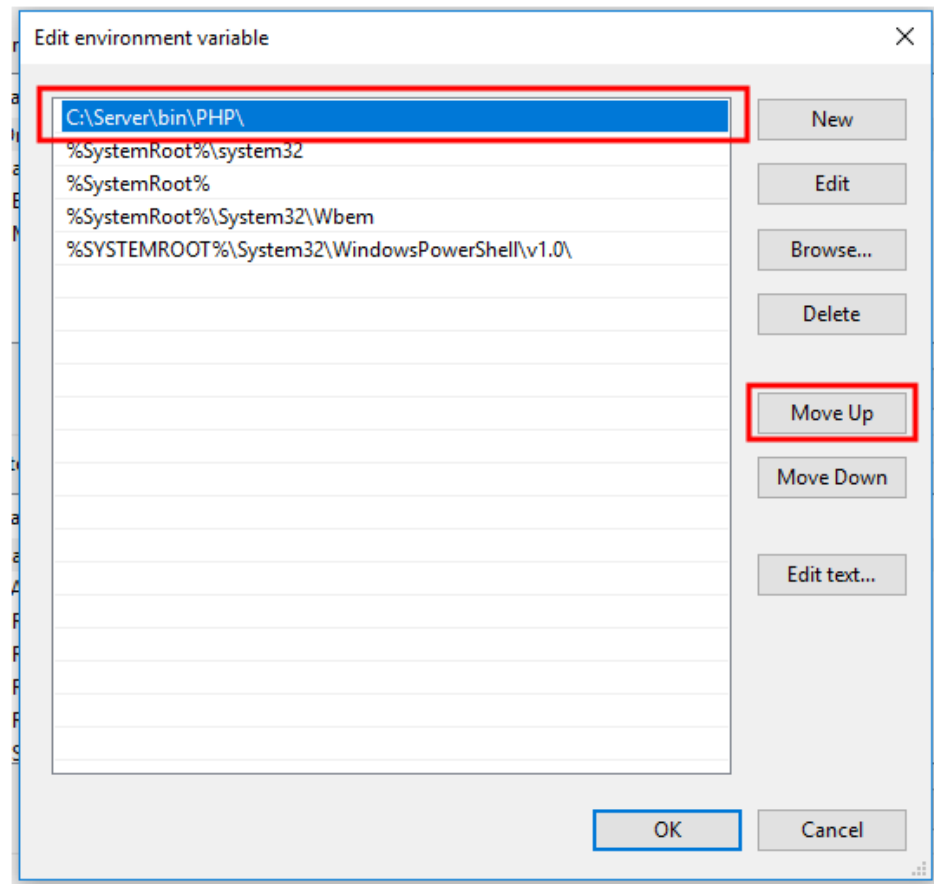
Click the **Environment Variables** button:



- Pada “System Variable” klik “path” lalu klik “edit”



- Klik “new” dan ketik C:\Server\bin\PHP\ dan OK. Pindahkan record yang sudah dibuat ke paling atas, simpan dan restart server(apache).



Begitulah tatacara membuat web server, referensi saya ambil dari website : [How to install web server on Windows 10 \(Apache 2.4, PHP 7, MySQL 8.0 and phpMyAdmin\)](#) yang sebagian foto screenshoot berasal dari web tersebut, sebagian lagi berasal dari apa yang saya kerjakan berdasarkan dari web tersebut. Terima kasih 😊