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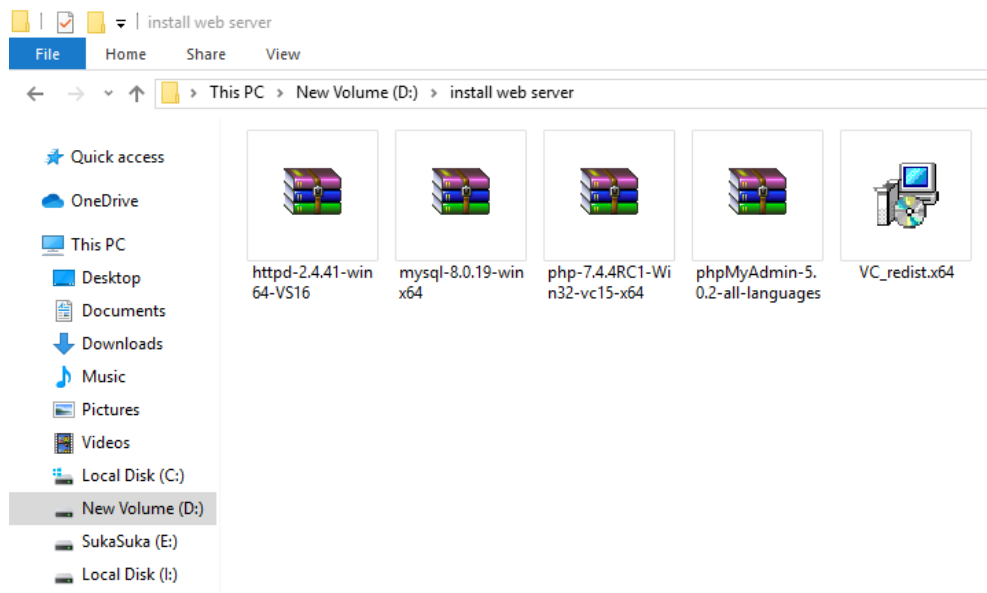
Pemrograman Web

Instalasi Web Server (harusurut dan sesuai):

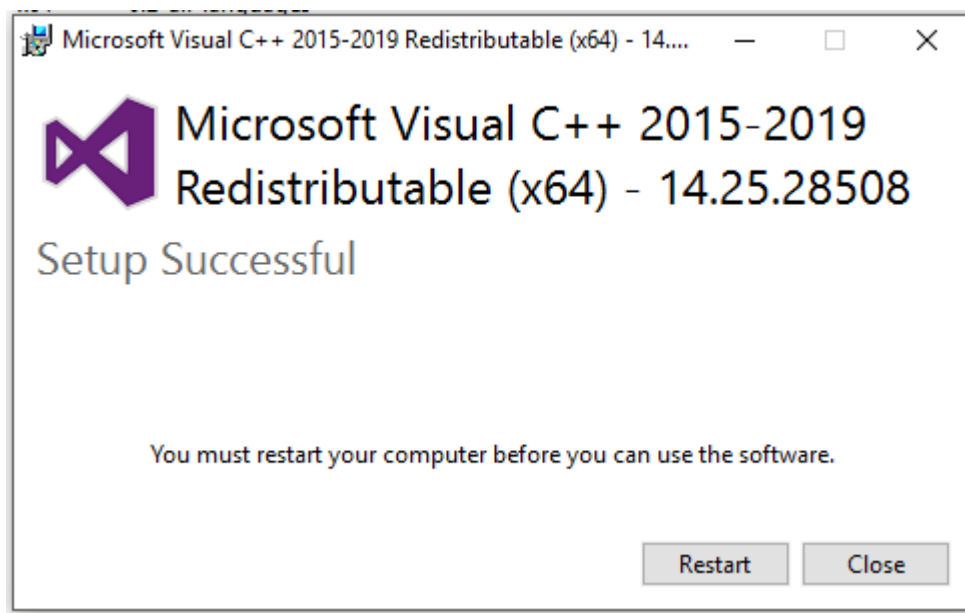
1. Download Apache, MySQL, PHP, phpMyAdmin, dan Visual C++ Redistributable for Visual Studio 2015-2019
 - Download Apache : <https://www.apachelounge.com/download/>
 - Download PHP 7 (Thread Safe) : <http://windows.php.net/qa/>
 - Download MySQL (ZIP archive) : <http://dev.mysql.com/downloads/mysql/>
 - 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).

File yang sudah Terdownload :

- 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



Setelah itu restart PC.

3. Setelah di restart, buat folder yang dibutuhkan

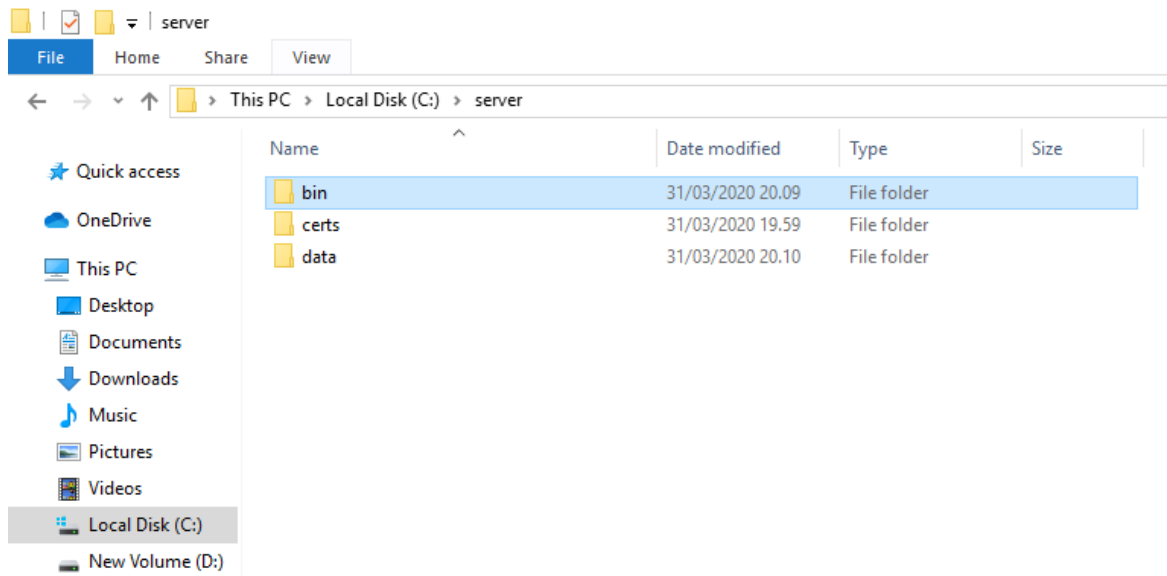
On the drive **C** create a directory **Server**; inside it create the **bin** directory (we will install Apache, PHP, and MySQL there) and **data** directory (our websites and databases will be located there).

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

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

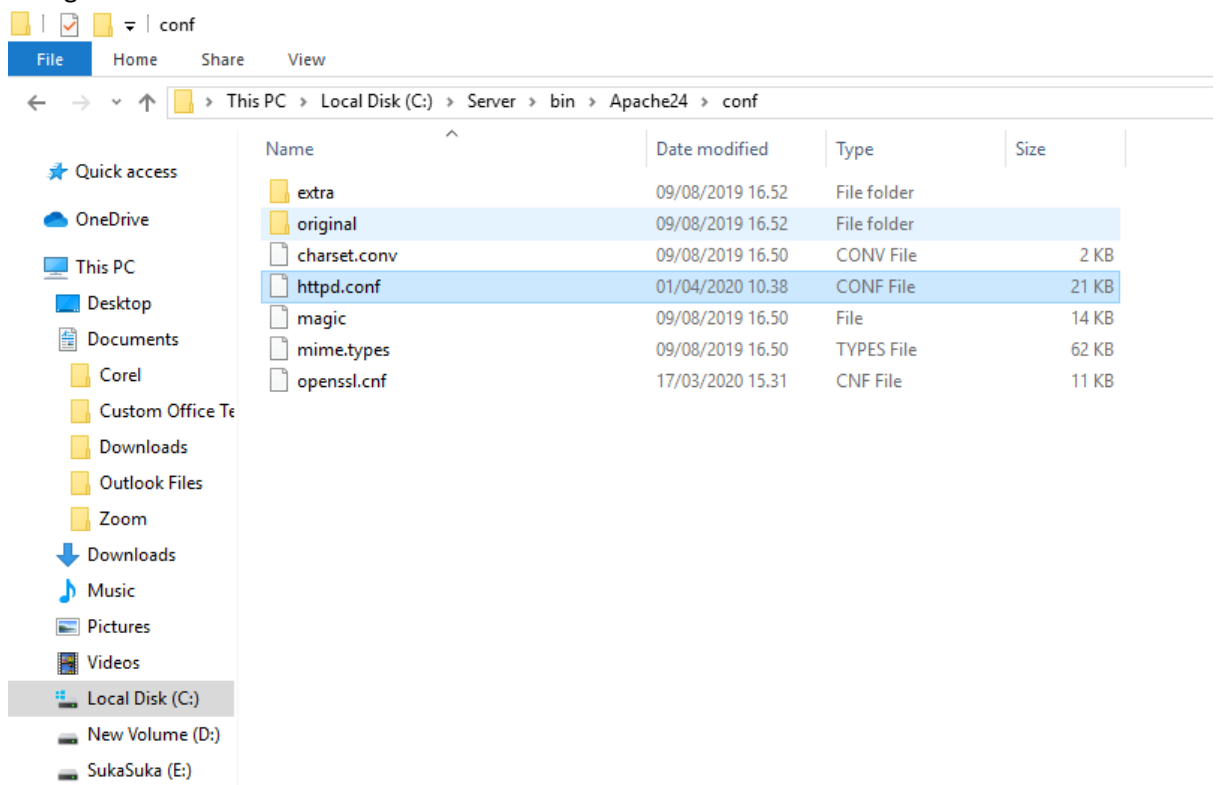
Tree of the important folders that are mentioned in this manual:

```
1 C:.\n2 |-\n3 |   bin\n4 |   |   Apache24\n5 |   |   |   conf\n6 |   |   mysql-8.0\n7 |   |   PHP\n8 |   |   Sendmail\n9 |   certs\n10 |   data\n11 |   |   DB\n12 |   |   data\n13 |   |   htdocs\n14 |   |   |   phpmyadmin\n15 |   manage
```



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/">
```

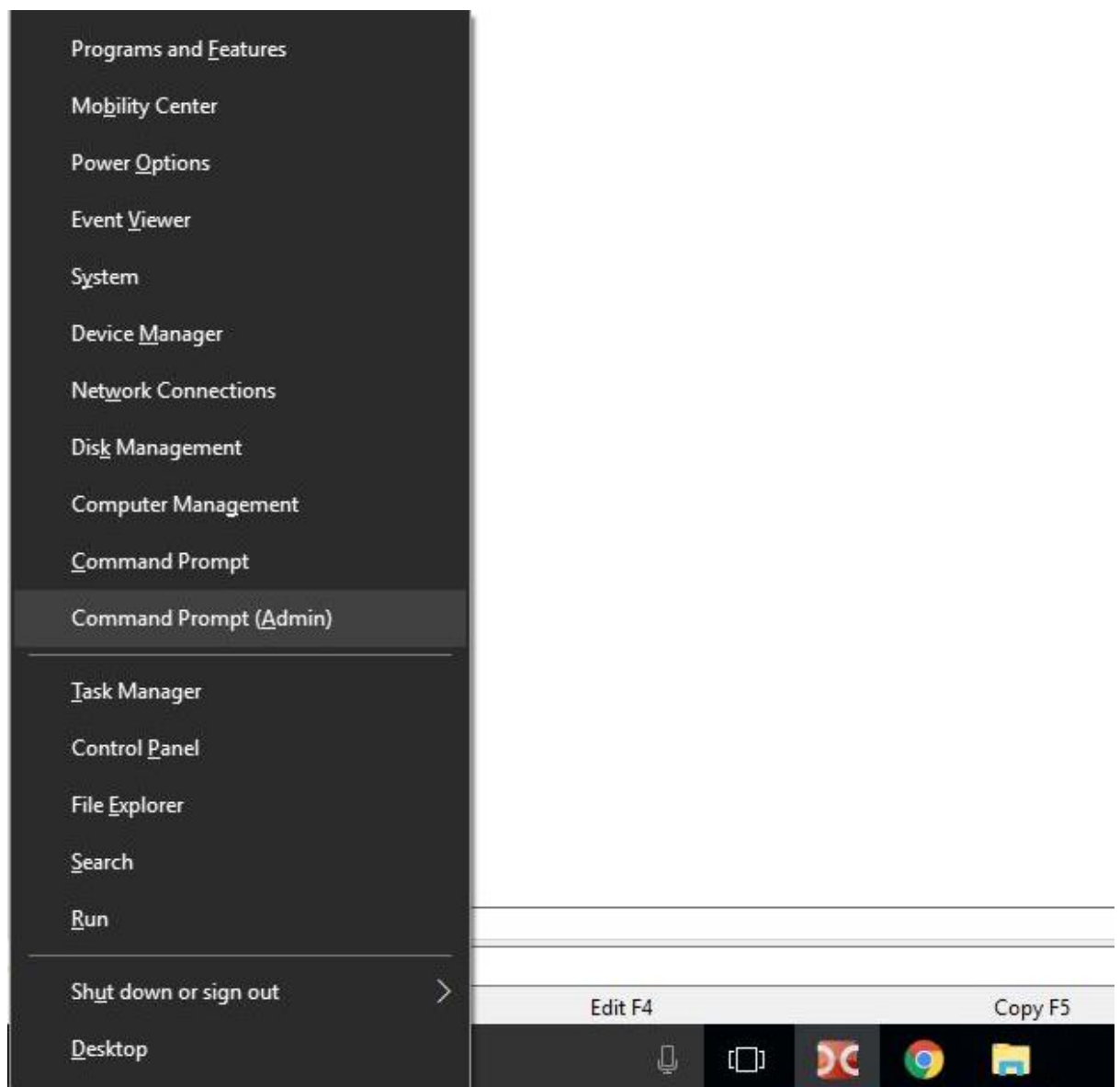
replace

```
1 | DirectoryIndex index.html
```

with

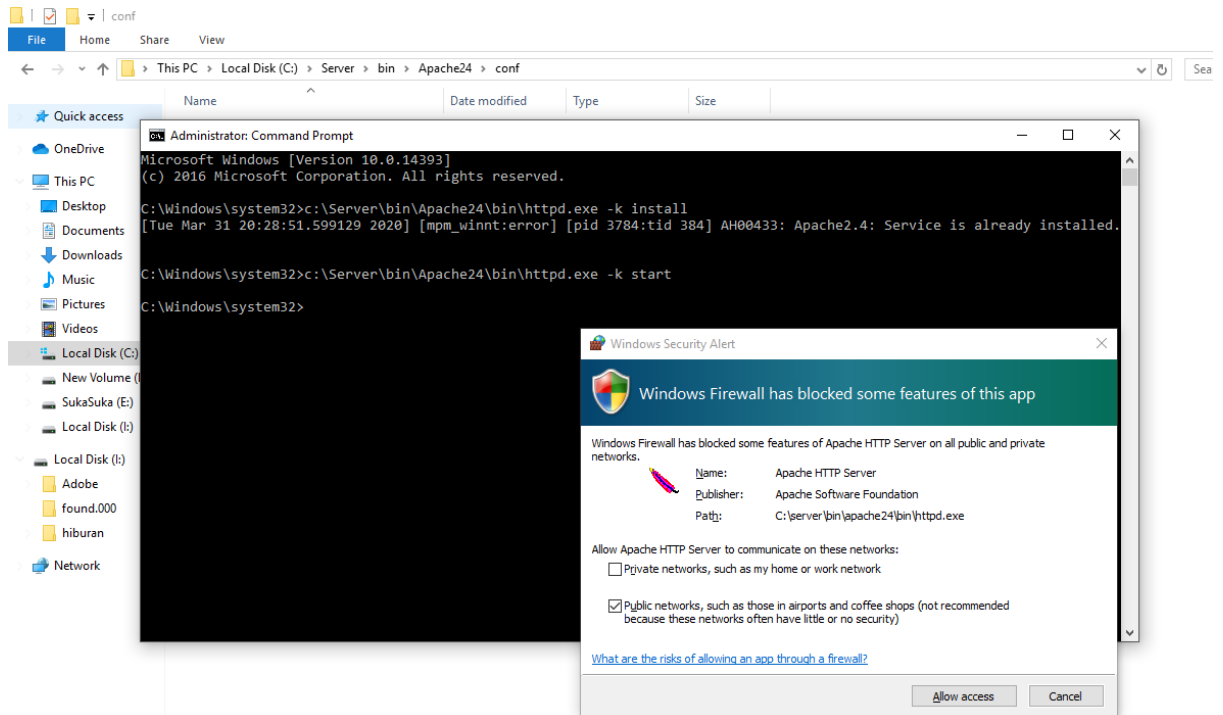
```
1 | DirectoryIndex index.php index.html index.htm
```

Lalu buka Command Prompt dengan cara (Windows + X)



Lalu jalankan command prompt seperti contoh berikut ini :

1. Tulis C:\Server\bin\Apache24\bin\httpd.exe -k install
2. Setelah itu C:\Server\bin\Apache24\bin\httpd.exe -k start

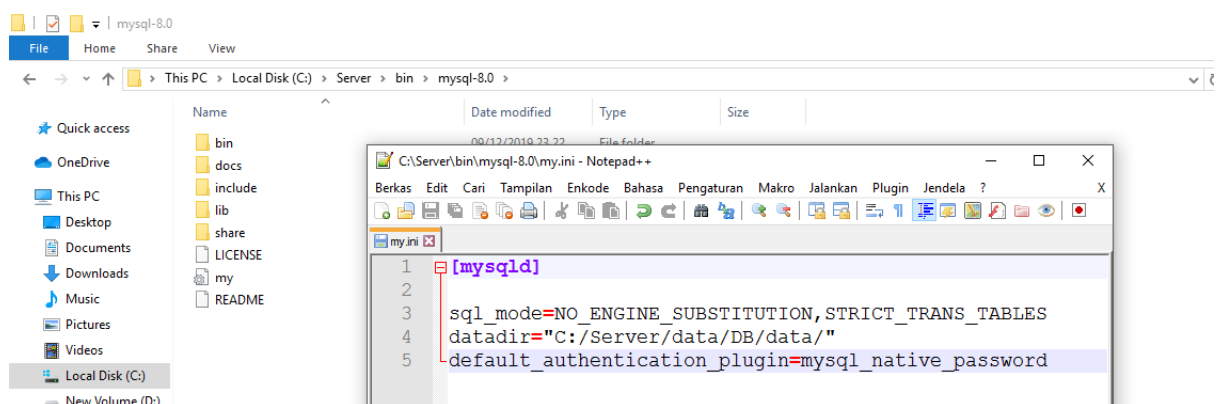


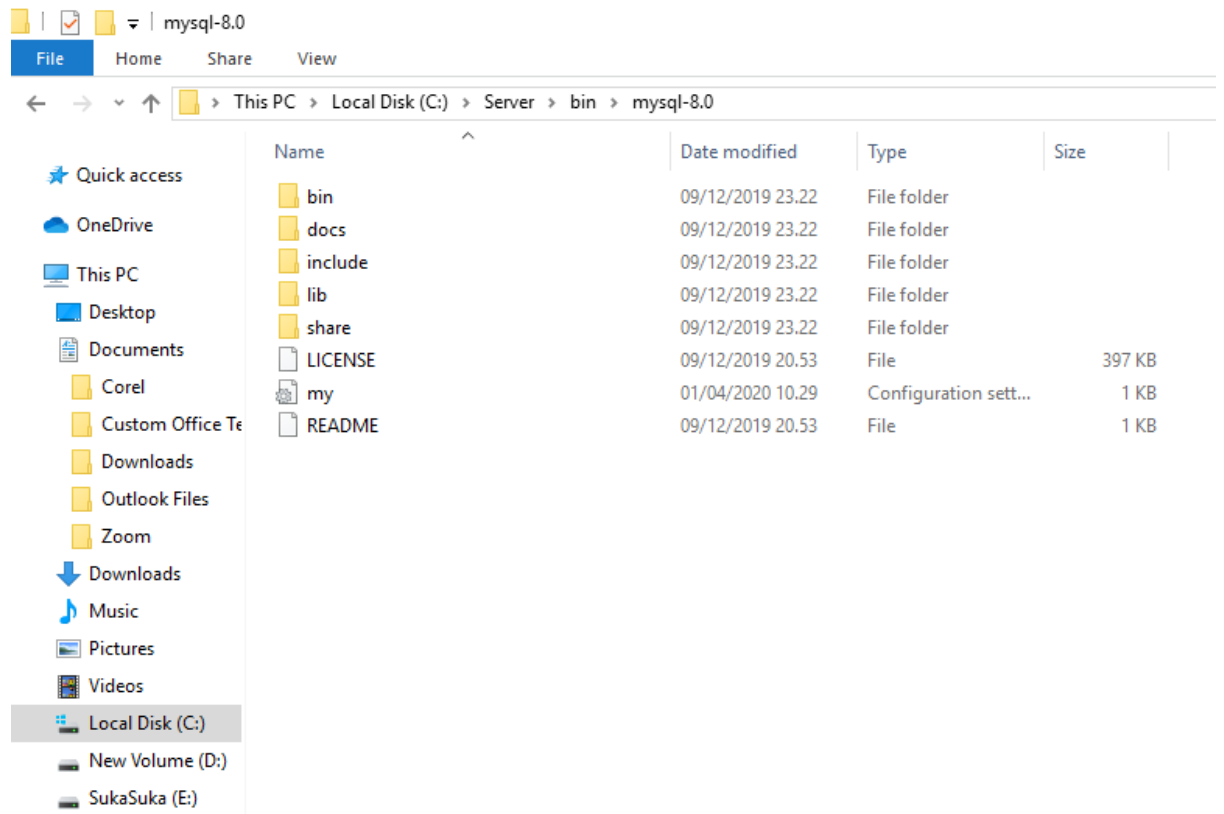
Lalu buka localhost pada browser, apabila Apache sudah terinstall dengan benar, maka akan muncul :



5. Instalasi dan konfigurasi MySQL 8.0

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

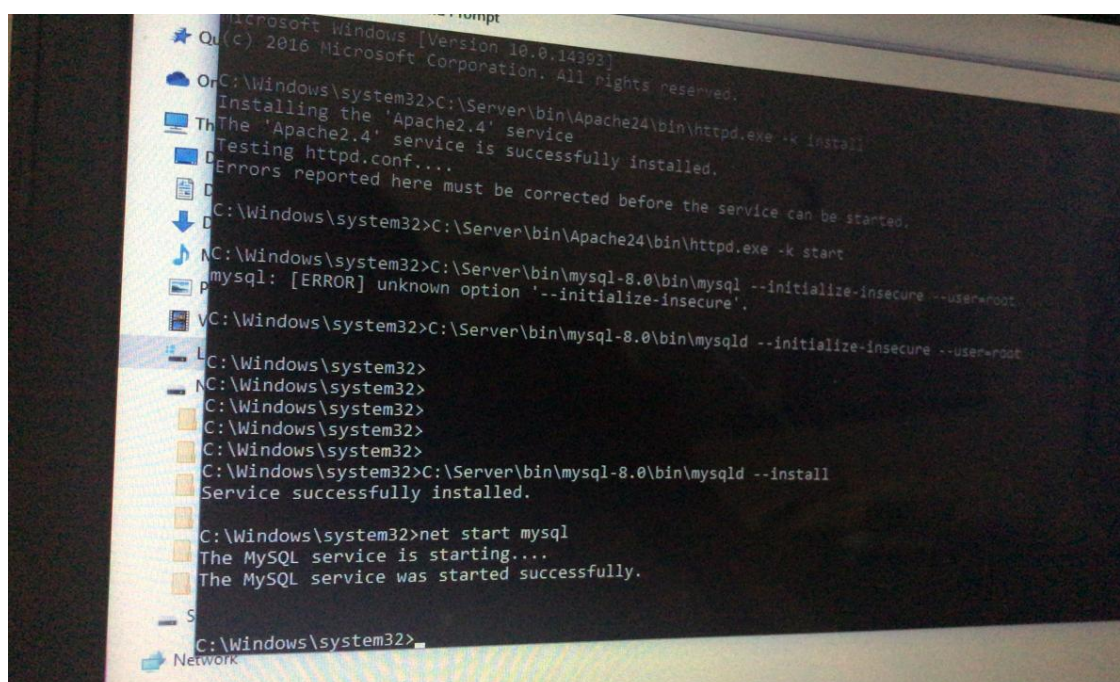




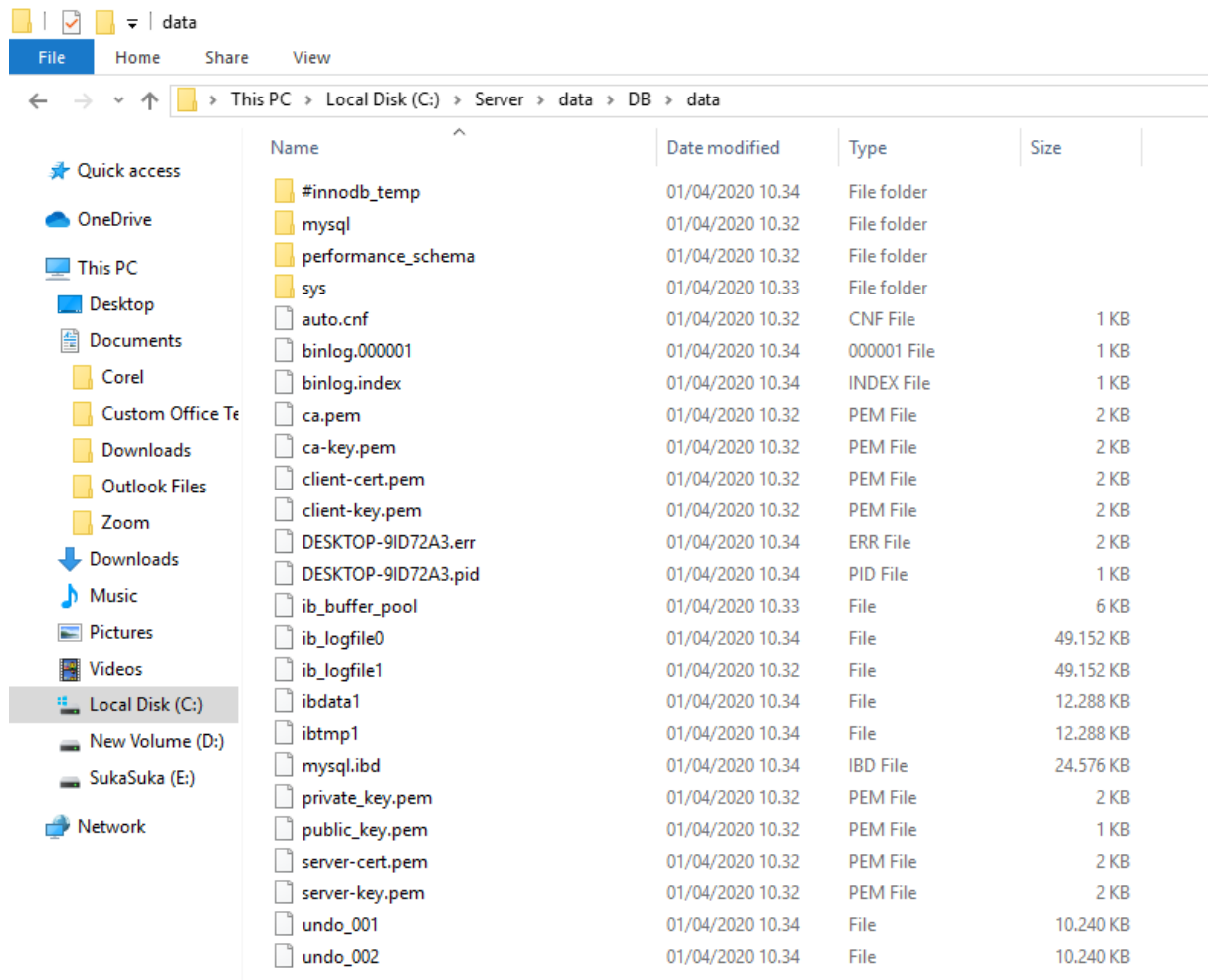
Lalu install MySQL melalui command prompt :

- Buka command prompt admin
- Tulis C:\Server\bin\mysql-8.0\bin\mysqld --initialize-insecure --user=root
- Tulis C:\Server\bin\mysql-8.0\bin\mysqld --install
- Tulis net start mysql

Apabila success akan seperti ini :



Lalu, di C:\Server\data\DB\data , akan muncul file seperti ini :



Proses Instalasi MySQL selesai.

6. Instalasi dan konfigurasi PHP 7

Buat folder PHP di C:\Server\bin\ dan ekstrak zip php7 ke folder tersebut.

Setelah di extract, buka file config di Apache, edit file httpd.conf dan tambahkan 3 line text sbb :

```
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 di command prompt dengan C:\Server\bin\Apache24\bin\httpd.exe -restart, lalu buat file menggunakan notepad++ dengan nama i.php di C:\Server\data\htdocs dengan isi :

The image shows a Notepad++ window titled "C:\Server\data\htdocs\i.php - Notepad++". The menu bar includes "Berkas", "Edit", "Cari", "Tampilan", "Encode", "Bahasa", "Pengaturan", "Makro", "Jalankan", "Plugin", "Jendela", and "?". The toolbar contains various icons for file operations and editing. The tab bar shows "my.ini", "httpd.conf", "i.php", and "php.ini". The code in the editor is:

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

Buka i.php yang ada di local host, kemudian akan tampil seperti ini :



Index of /

- [i.php](#)
- [phpmyadmin/](#)

The image shows a web browser window displaying the output of the phpinfo() function. The title is "PHP Version 7.4.4RC1". The output is a table with various system and PHP configuration details.

System	Windows NT DESKTOP-9ID72A3 10.0 build 14393 (Windows 10) AMD64
Build Date	Mar 3 2020 14:18:38
Compiler	Visual C++ 2017
Architecture	x64
Configure Command	cmd /c "n /nologo /e:script configure.js --enable-snapshot-build" --enable-debug-pack" --with-pdo-oci=c:\php-snap-build\deps_aux\oracle\v64\instantclient_12_1\sdk,shared" --with-oci8-12c=c:\php-snap-build\deps_aux\oracle\v64\instantclient_12_1\sdk,shared" --enable-object-out-dir=.obj" --enable-com-dotnet=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	(none)
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	API20190902,TS,VC15
Debug Build	no
Thread Safety	enabled
Thread API	Windows Threads
Zend Signal Handling	disabled
Zend Memory Manager	enabled
Zend Multibyte Support	disabled

Apabila muncul seperti ini, maka php sudah berhasil di install dan berjalan. Setelah itu di C:\Server\bin\PHP terdapat file php.ini-development, ubah nama file tersebut menjadi php.ini lalu edit menggunakan notepad++ :

```
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
```

```
1 extension=bz2
2 extension=curl
3 extension=fileinfo
4 extension=gd2
5 extension=gettext
6 extension=gmp
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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=sqllite3
4 ;extension=tidy
5 ;extension=xmlrpc
6 ;extension=xsl
```

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

```
C:\Server\bin\PHP\php.ini - Notepad++
Berkas Edit Cari Tampilan Enkode Bahasa Pengaturan Makro Jalankan Plugin Jendela ?
my.ini httpd.conf php php.ini
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
```

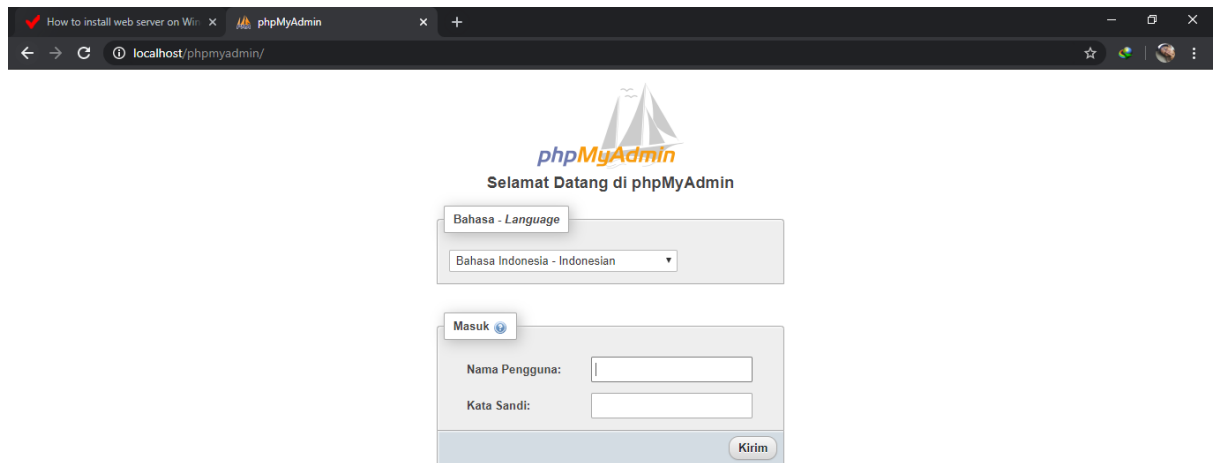
Save, dan tutup, lalu restart Apache dengan cara sebelumnya.

7. Instalasi dan konfigurasi phpMyAdmin

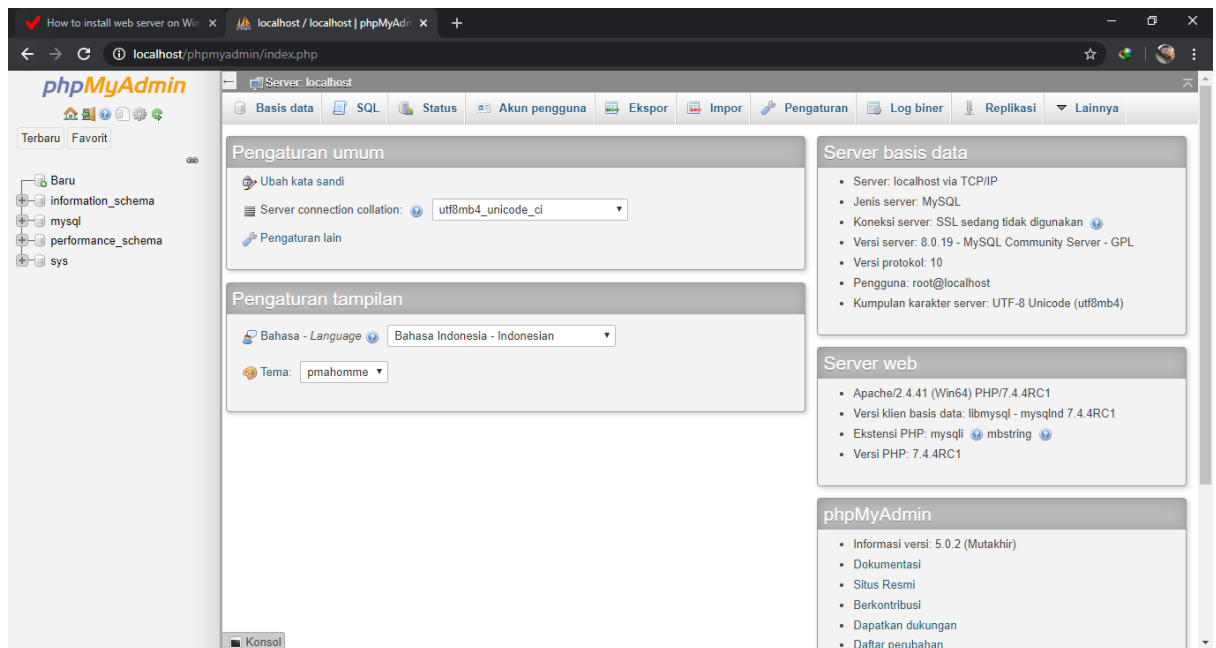
Ekstak zip phpMyAdmin ke direktori C:\Server\data\htdocs\ dan rename folder menjadi phpmymadmin. Buatlah file config.inc.php menggunakan notepad++ yang berisi:

```
C:\Server\data\htdocs\phpmyadmin\config.inc.php - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
httpd.conf my.ini php php.ini config.inc.php sendmail.php new 1.html
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^llX+T=KVYv{ubK*U0V';
23 $cfg['DefaultLang'] = 'ru';
24 $cfg['ServerDefault'] = 1;
25 $cfg['UploadDir'] = '';
26 $cfg['SaveDir'] = '';
27
28 ?>
```

Buka phpmyadmin melalui localhost, maka akan muncul sbb :



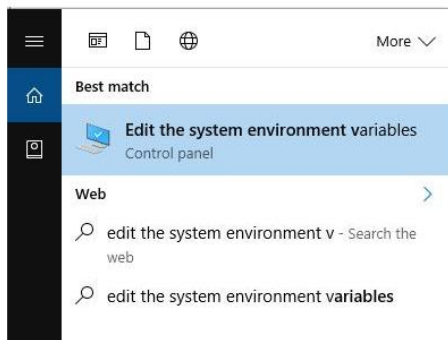
Login dengan username root lalu langsung kirim, tanpa memasukkan password, maka akan tampil sbb :



8. Menambahkan PHP ke System Path Windows

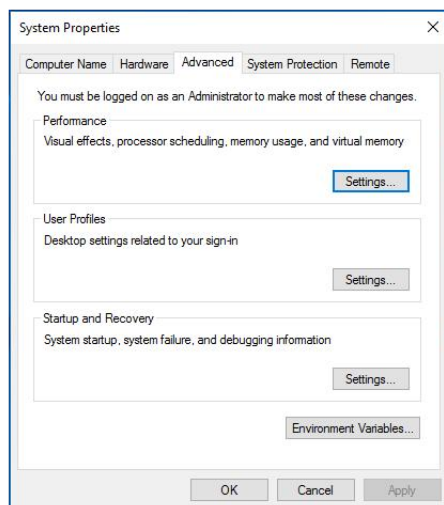
Menambahkan folder PHP ke system path agar tidak muncul error setiap menjalankan Apache. Dapat dilakukan dengan cara sebagai berikut:

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

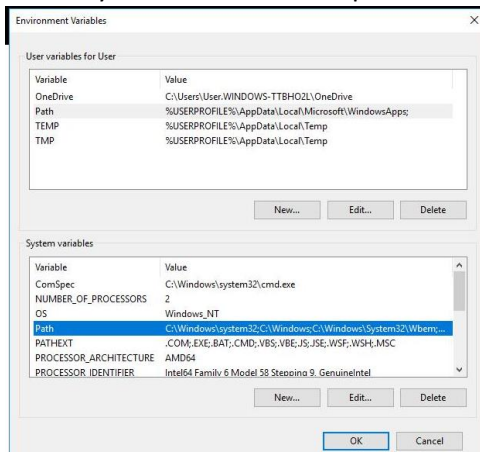


- Click environment variables

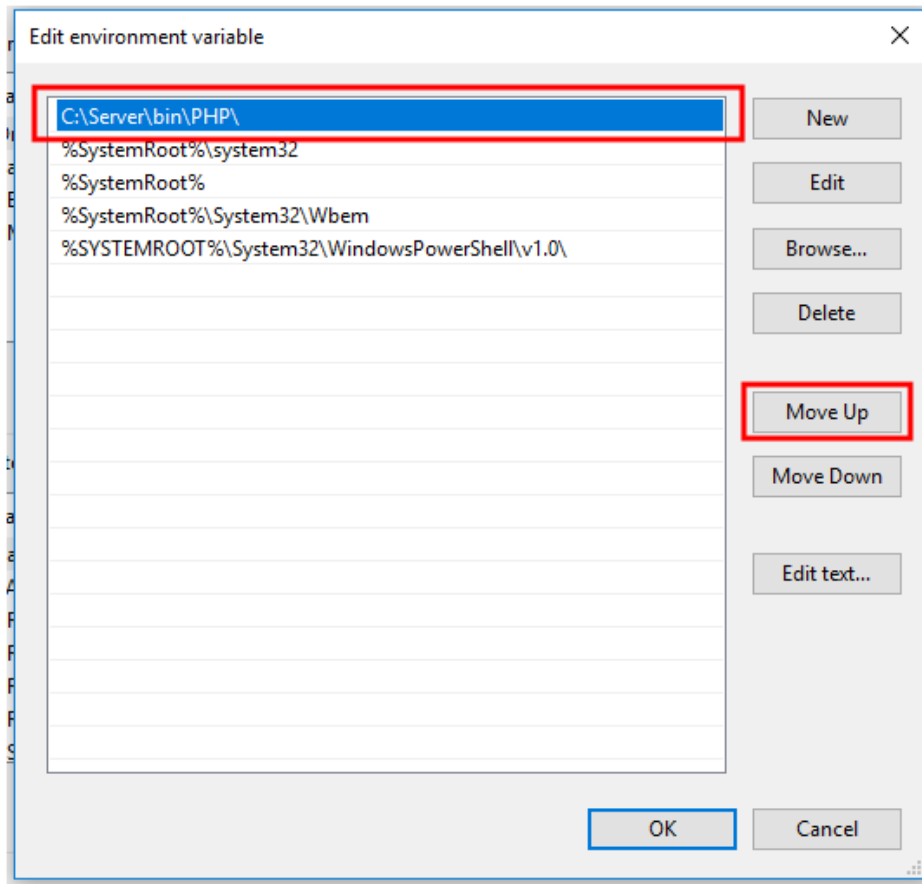
Click the **'Environment Variables'** button:



- 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).



Berikut tata cara membuat web server, saya membuat tugas ini dengan tutorial dari <https://miloserdov.org/?p=55> dan panduan dari teman saya.

Terimakasih