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Matkul : Pemrograman Web

INSTALASI DAN KONFIGURASI WEB SERVER

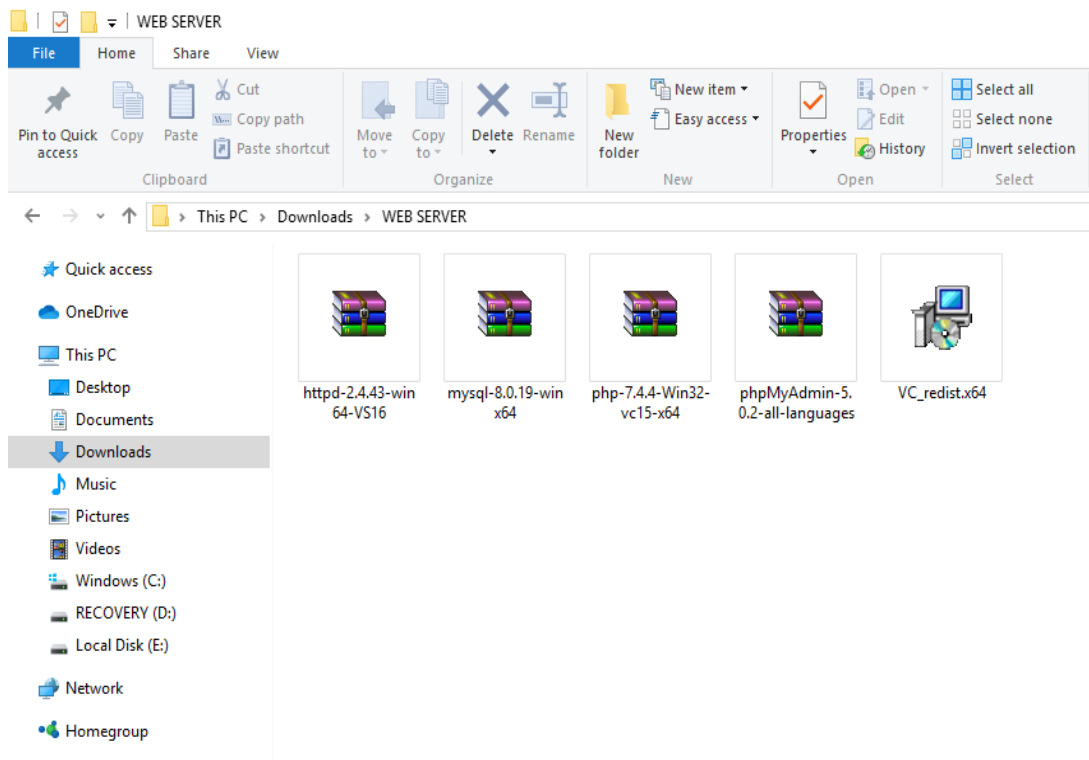
Instalasi Web Server harus urut :

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

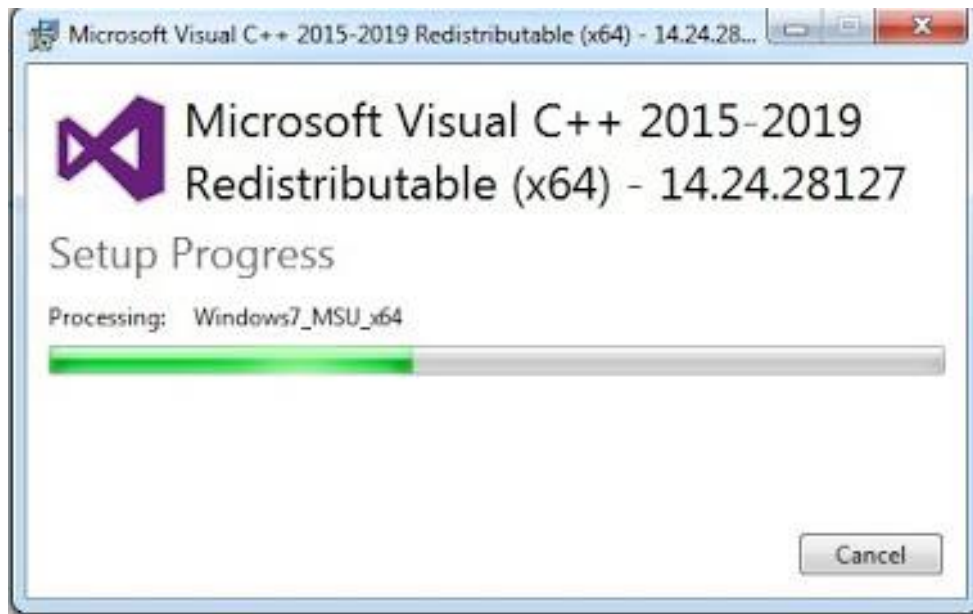
- Download Apache for Windows: <https://www.apachelounge.com/download/>
- Download PHP 7 for Windows (select Thread Safe): <http://windows.php.net/qa/>
- Download MySQL for Windows (select ZIP Archive): <http://dev.mysql.com/downloads/mysql/>
- Download phpMyAdmin: <https://www.phpmyadmin.net/>
- Download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



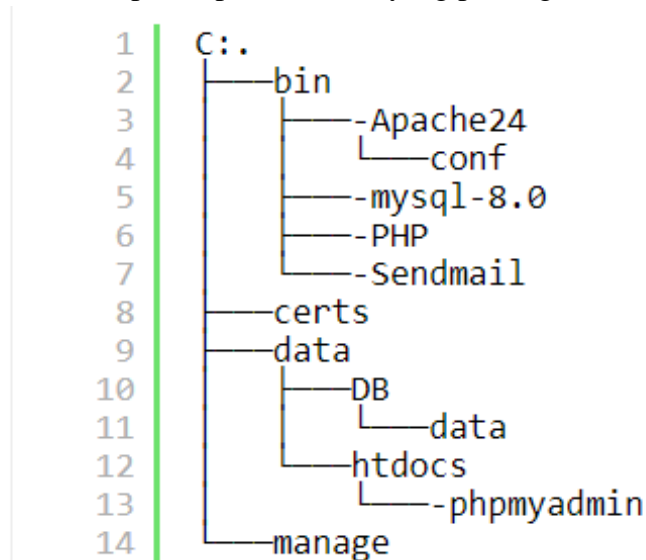
3. Buatlah Folder yang dibutuhkan

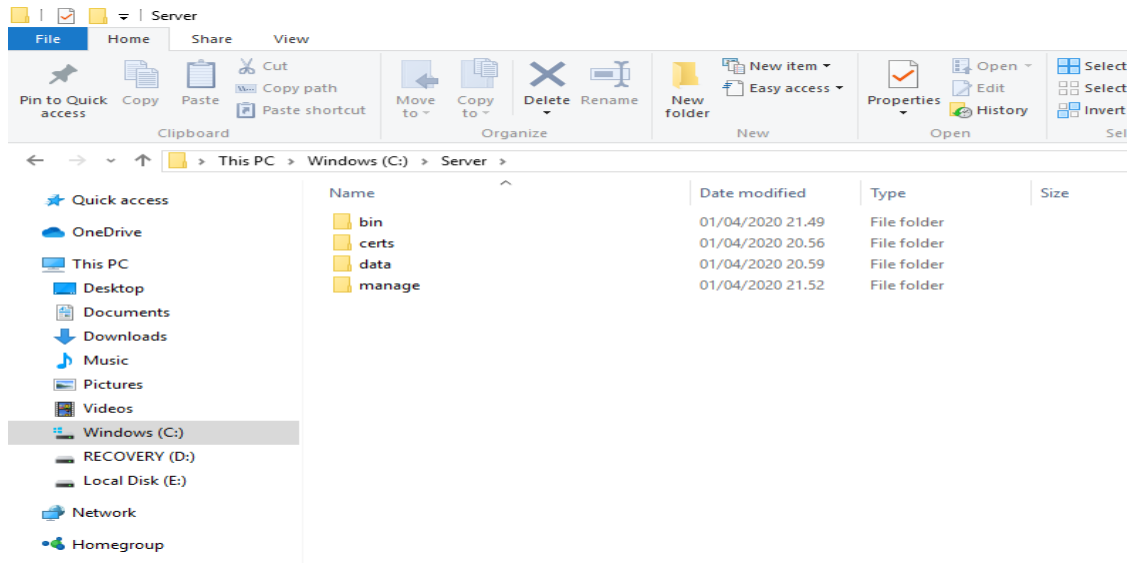
Pada drive C buat directory **Server**; didalamnya dibuat directory **bin** (tempat melakukan instalasi Apache, PHP, dan MySQL) dan directory **data** (lokasi websites dan basis data).

Pada directory **data** buatlah 2 folder ;

- **DB** (tempat penyimpanan basis data)
- **htdocs** (tempat penyimpanan websites)

Berikut merupakan pohon folder yang penting :





4. Instalasi dan Konfigurasi Apache

Ekstrak file **Apache24.zip** ke **C:\Server\bin**, lalu ke **C:\Server\bin\Apache24\conf** dan edit file **httpd.conf** menggunakan text editor (Notepad++) seperti berikut :

Ubah :

```
1 | Define SRVROOT "c:/Apache24"
```

Menjadi :

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

Ubah :

```
1 | #ServerName www.example.com:80
```

Menjadi :

```
1 | ServerName localhost
```

Ubah :

```
1 | DocumentRoot "${SRVROOT}/htdocs"
```

Menjadi :

```
1 | DocumentRoot "c:/Server/data/htdocs/"
```

Ubah :

```
1 | <Directory "${SRVROOT}/htdocs">
```

Menjadi :

```
1 | <Directory "c:/Server/data/htdocs/">
```

Ubah :

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

Menjadi :

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

Ubah :

```
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
```

Menjadi :

```
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
```

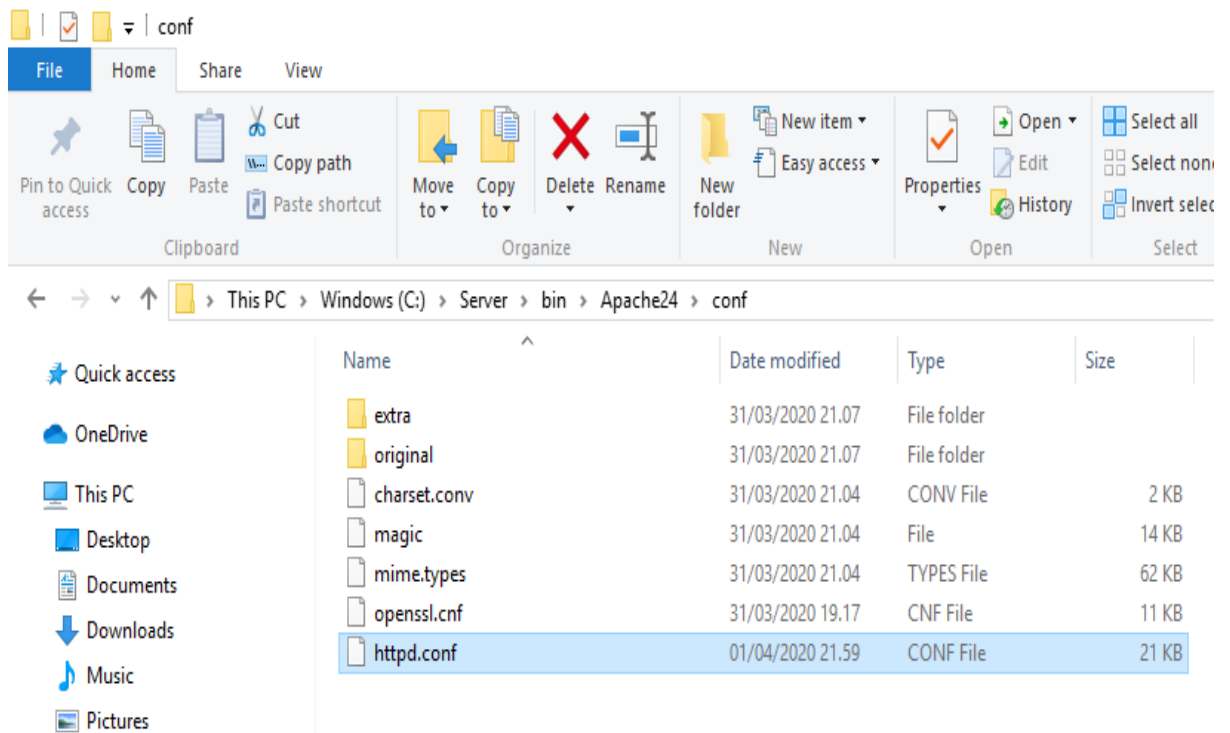
Ubah :

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

Menjadi :

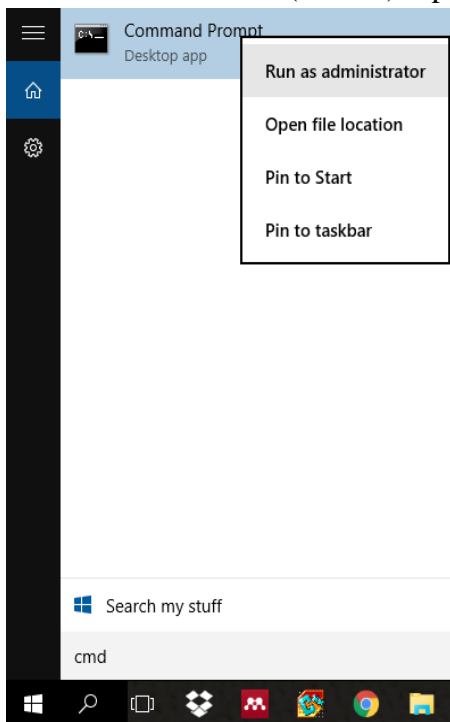
```
1 | LoadModule rewrite_module modules/mod_rewrite.so
```

Setelah itu, Simpan dan Tutup file.



Konfigurasi Apache telah selesai !!

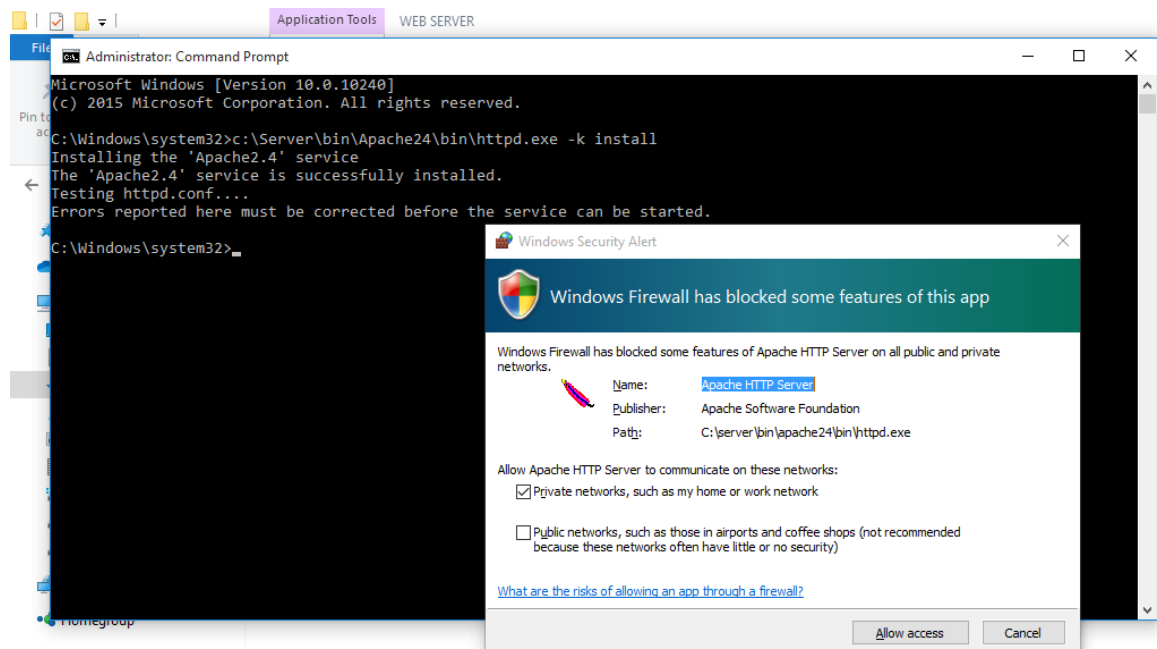
Buka Command Prompt (run as Administration) / dapat dengan (Win+X) pilih Windows Powershell (Admin) seperti berikut :



Jalankan Command Prompt dengan langkah :

COPY-PASTE :

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



Jika muncul Firewall prompt seperti gambar diatas, pilih '**Allow Access**'.

COPY-PASTE juga :

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

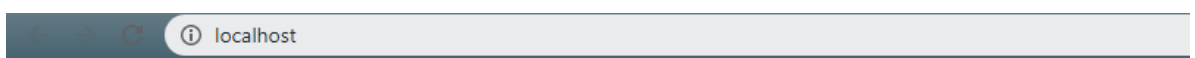
```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Windows\system32>c:\Server\bin\Apache24\bin\httpd.exe -k install
Installing the 'Apache2.4' service
The 'Apache2.4' service is successfully installed.
Testing httpd.conf....
Errors reported here must be corrected before the service can be started.

C:\Windows\system32>c:\Server\bin\Apache24\bin\httpd.exe -k start

C:\Windows\system32>
```

Setelah itu, ketik <http://localhost/> pada browser, akan muncul tampilan :



Index of /

Tampilan diatas menandakan Apache berhasil terinstal dan berjalan.

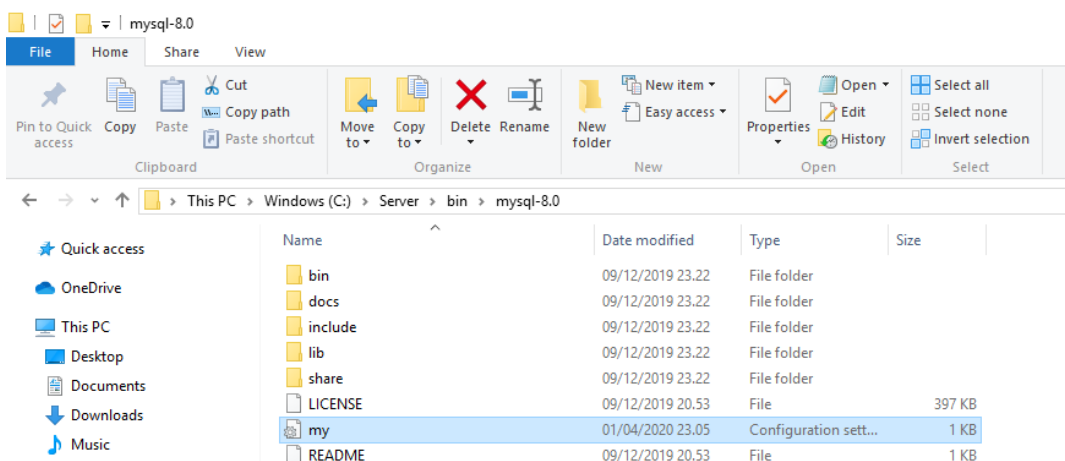
5. Instalasi dan Konfigurasi MySQL 8.0

Ekstrak **MySQL.zip** ke dalam directory **c:\Server\bin**. Rename folder **MySQL.zip** menjadi **mysql-8.0**. Lalu buatlah file **my.ini** menggunakan text editor (Notepad++) dengan isi :

```
C:\Server\bin\mysql-8.0\my.ini - Notepad++
Berkas Edit Cari Tampilan Encode Bahasa Pengaturan Alat Makro Jalankan Plugin Jendela ?

httpd.conf my.ini
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
```

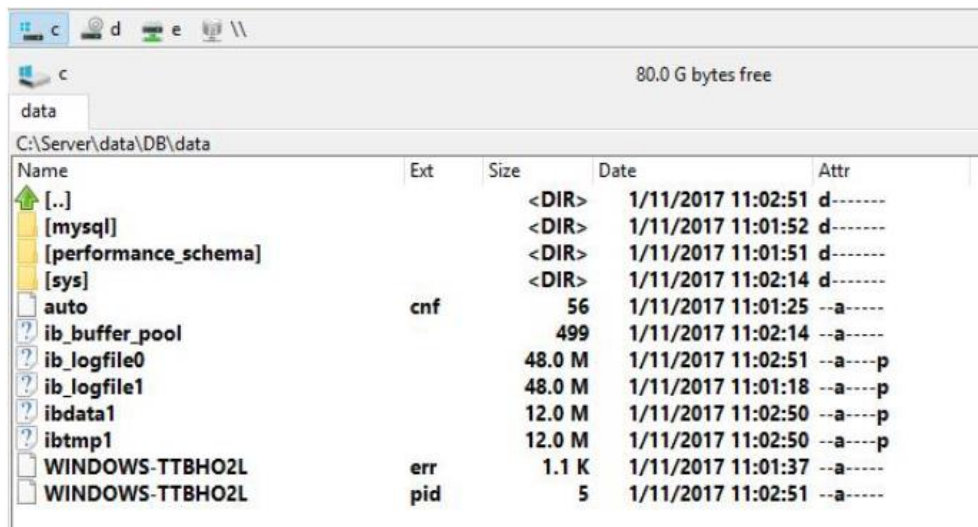
Lalu Simpan dan Tutup file



Lalu inialisasi dan install MySQL melalui Command Prompt dengan COPY-PASTE satu-satu :

```
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 setelah proses selesai, pada C:\Server\data\DB\data\ akan keluar otomatis beberapa file seperti :



Proses Instalasi dan Konfigurasi MySQL selesai.

6. Instalasi dan Konfigurasi PHP 7

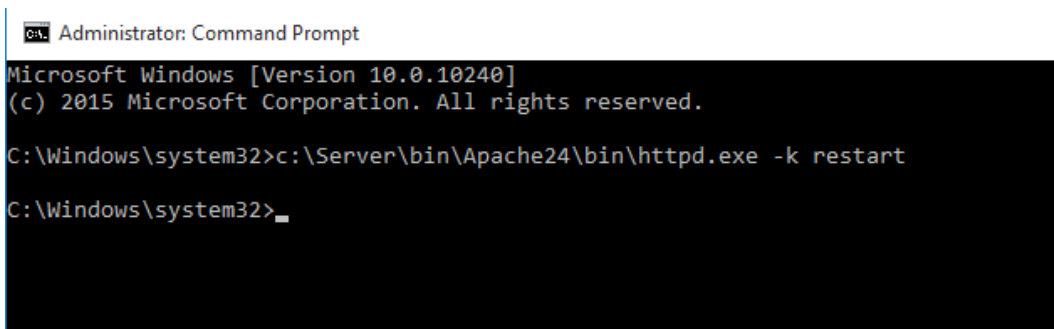
Pada C:\Server\bin\ buatlah folder baru **PHP** dan copy semua konten yang ada dalam **php-7.1.1RC1-Win32-VC14-x64.zip**.

Lalu buka kembali file httpd.conf dan tambahkan 3 line text berikut di bagian paling bawah:

```
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"
```

Dan Restart Apache :

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



C:\Server\data\htdocs\i.php - Notepad++

Berkas Edit Cari Tampilan Encode Bahasa Pengaturan Aplikasi


httpd.conf x my.ini x i.php x

```

1 <?php
2 phpinfo ();

```

PHP Version 7.4.4



System	Windows NT DESKTOP-91EN9QT 10.0 build 10240 (Windows 10) AMD64
Build Date	Mar 17 2020 13:42:17
Compiler	Visual C++ 2017
Architecture	x64
Configure Command	cscript /nologo /e:jscript 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-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
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

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


Ubah :

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
```

Menjadi :

```
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
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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
```

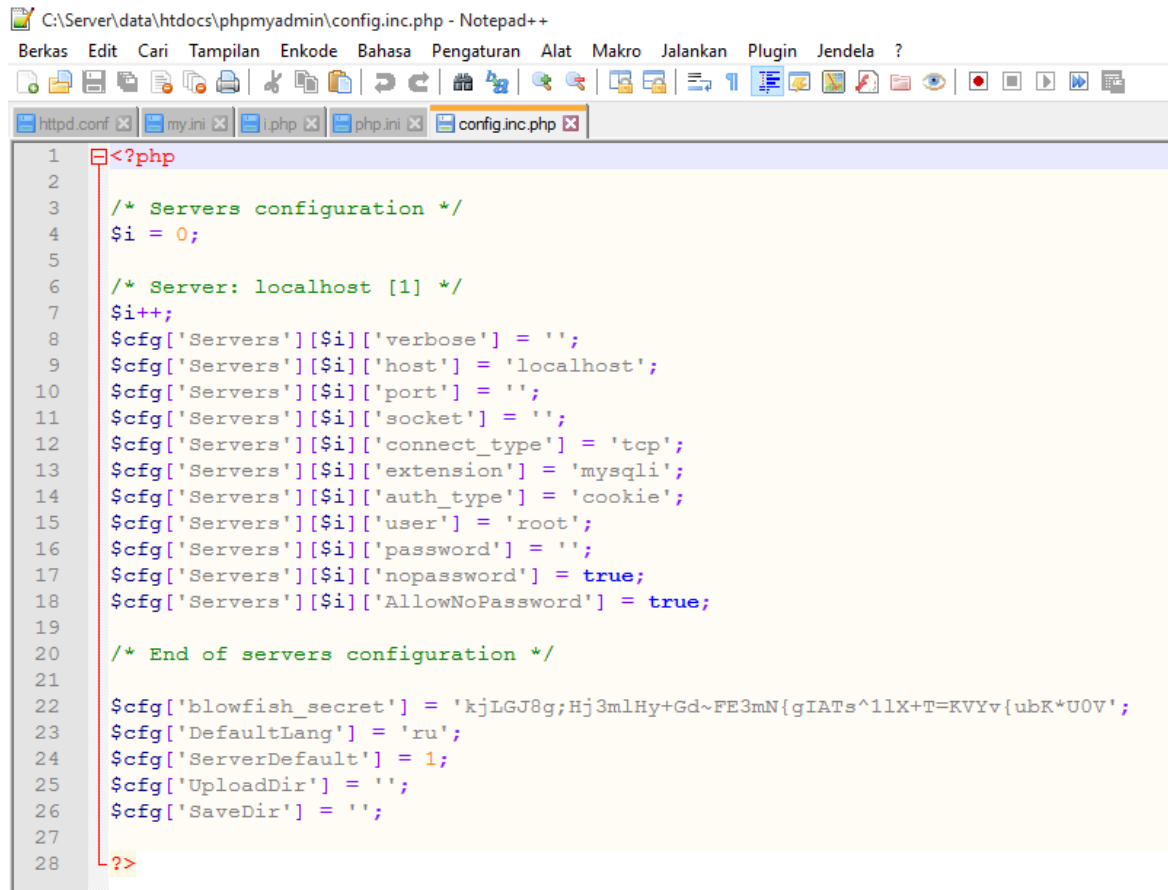
Menjadi :

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

Simpan dan Tutup file. Lalu Restart Apache kembali.

7. Instalasi dan Konfigurasi phpMyAdmin

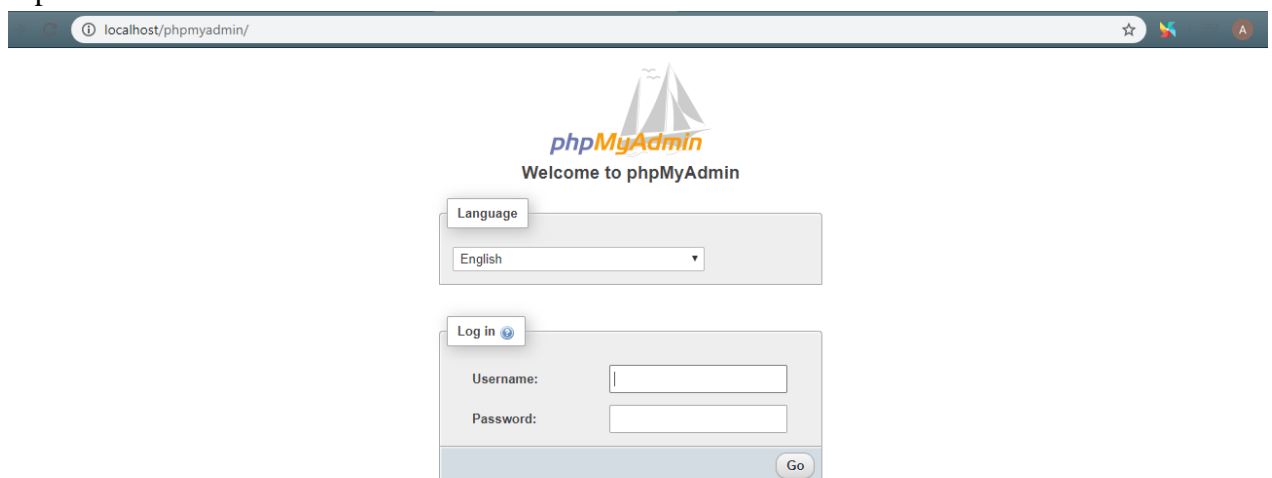
Pada `c:\Server\data\htdocs\` copy semua content yang ada didalam **phpMyAdmin-5.0.2-all-languages.zip**. dan rename folder **phpMyAdmin-5.0.2-all-languages** menjadi **phpmyadmin**. Lalu buatlah file **config.inc.php** menggunakan text editor (Notepad++) dengan isi sebagai berikut :



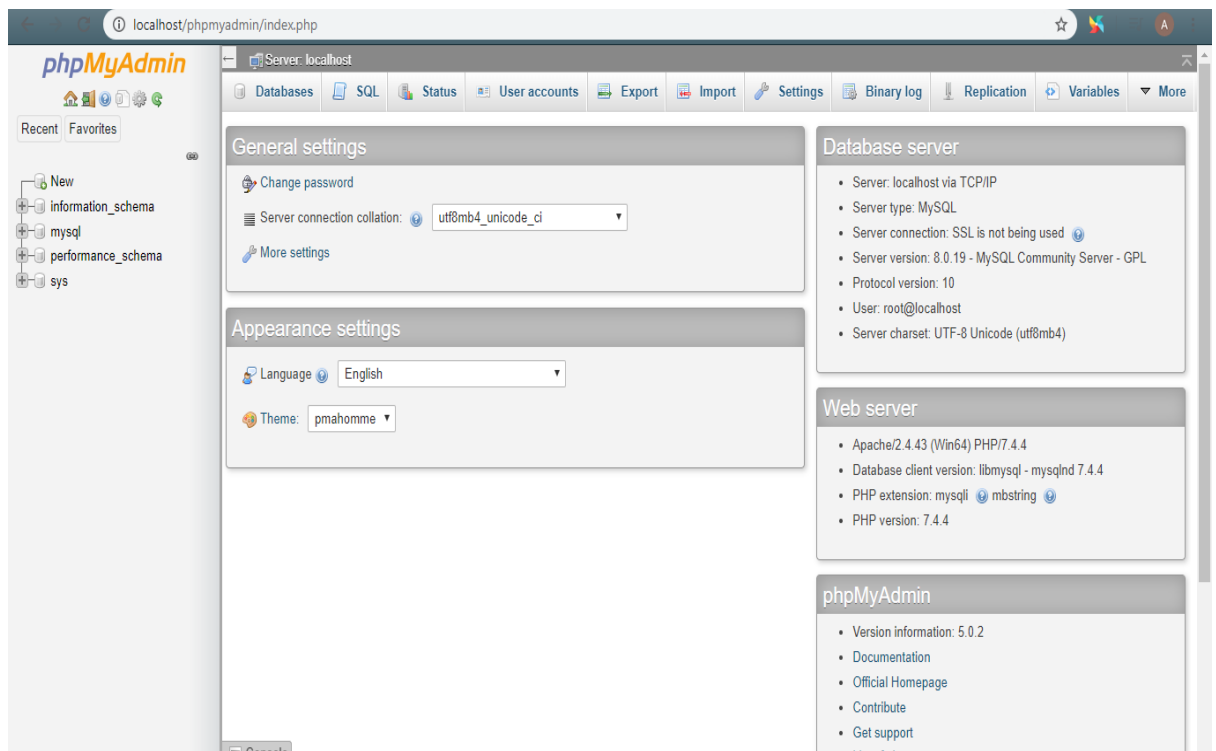
```
1 <?php
2
3 /* Servers configuration */
4 $i = 0;
5
6 /* Server: localhost [1] */
7 $i++;
8 $cfg['Servers'][$i]['verbose'] = '';
9 $cfg['Servers'][$i]['host'] = 'localhost';
10 $cfg['Servers'][$i]['port'] = '';
11 $cfg['Servers'][$i]['socket'] = '';
12 $cfg['Servers'][$i]['connect_type'] = 'tcp';
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*UOV';
23 $cfg['DefaultLang'] = 'ru';
24 $cfg['ServerDefault'] = 1;
25 $cfg['UploadDir'] = '';
26 $cfg['SaveDir'] = '';
27
28 ?>
```

Simpan dan Tutup file.

Bukalah alamat <http://localhost/phpmyadmin/> di browser maka akan muncul tampilan seperti:



Isikan username dengan **root** dan password tidak usah diisi. Klik Go lalu akan muncul tampilan seperti :



Proses Instalasi dan Konfigurasi phpMyAdmin selesai.