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PemrogramanWeb [A12.6401U]

TugasMinggu01-Instalasi Web Server, PHP dan MariaDB/MySQL

HOW TO INSTALL WEB SERVER ON WINDOWS 10
(APACHE 2.4, PHP 7, MYSQL 8.0 AND PHPMYADMIN)

1. Downloading Apache, PHP, MySQL, phpMyAdmin

* Download Apache for Windows: https://www.apachelounge.com/download/

<https://www.apachelounge.com/download/>

* Download PHP 7 for Windows (select 'Thread Safe'):

http://windows.php.net/qa/ <https://miloserdov.org/?goto=425>

* Download MySQL for Windows (select ZIP Archive):

http://dev.mysql.com/downloads/mysql/

<https://miloserdov.org/?goto=426>

* Download phpMyAdmin: https://www.phpmyadmin.net/

<https://www.phpmyadmin.net/>

* Download the latest Visual C++ Redistributable for Visual Studio

2015-2019: (direct link to download the 64-bit

<https://aka.ms/vs/16/release/VC_redist.x64.exe> version, a direct

link to the download of the 32-bit

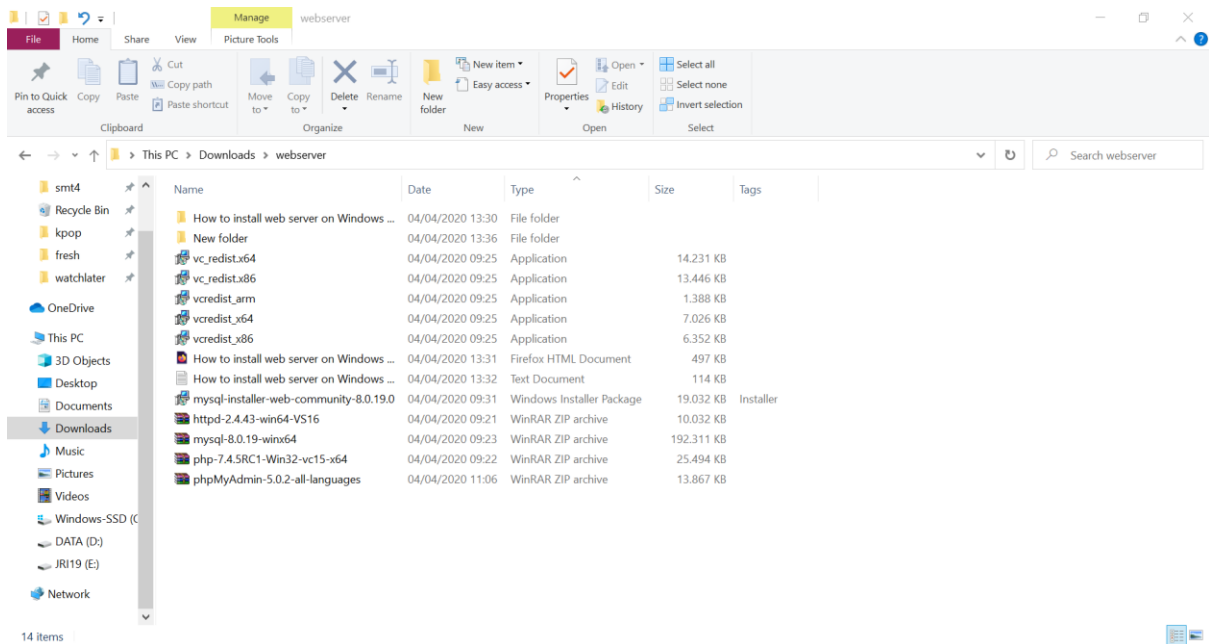<https://aka.ms/vs/16/release/VC_redist.x86.exe> version).

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

Run and install the *vc_redist.x64.exe* file, we will not return to it.

2. Create necessary folders

On the drive *C* create a directory *Server*; inside it create the *bin*

directory (we will install Apache, PHP, and MySQL there) and *data*

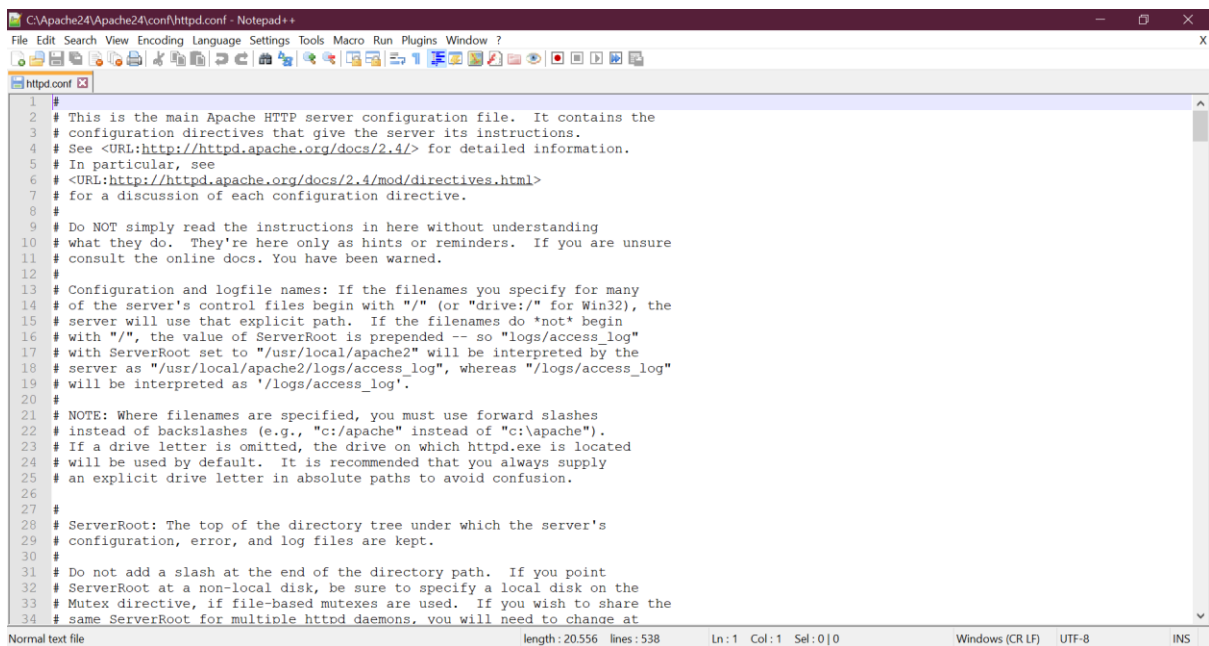directory (our websites and databases will be located there).

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

* *DB *(database will be stored here)

* *htdocs *(websites will be stored here)

3. Installation and configuration Apache 2.4 on Windows

Unpack the Apache files (archive httpd-2.4.25-win64-VC14.zip) to the

C:\Server\bin directory (we are interested only in the

*Apache24 *folder):

After unpacking, go to the *c:\Server\bin\Apache24\conf* folder and

open the *httpd.conf* file with any text editor.

Replace|Define SRVROOT "c:/Apache24"|with|Define SRVROOT "c:/Server/bin/Apache24"|

replace|#ServerName www.example.com:80|with|ServerName localhost|

replace|DocumentRoot "${SRVROOT}/htdocs"|with|DocumentRoot "c:/Server/data/htdocs/"|

replace|<Directory "${SRVROOT}/htdocs">|with|<Directory "c:/Server/data/htdocs/">|

replace|DirectoryIndex index.html|with|DirectoryIndex index.php index.html index.htm|

replace

|# AllowOverride controls what directives may be placed in .htaccess files.|

|# It can be "All", "None", or any combination of the keywords:|

|#   AllowOverride FileInfo AuthConfig Limit|

|#|

|AllowOverride None|

with

|# AllowOverride controls what directives may be placed in .htaccess files.|

|# It can be "All", "None", or any combination of the keywords:|

|#   AllowOverride FileInfo AuthConfig Limit|

|#|

|AllowOverride All|

and replace|#LoadModule rewrite_module modules/mod_rewrite.so|

with

|LoadModule rewrite_module modules/mod_rewrite.so|

Save and close the file. Apache configuration is complete!

Open a command prompt (it can be done by simultaneously pressing *Win +X*). Select '*Windows PowerShell (admin)*':

Copy-paste:

|c:\Server\bin\Apache24\bin\httpd.exe -k ||install|and press Enter.

If you see Firewall prompt, select '*Allow access*'.

Also copy-paste and run:|c:\Server\bin\Apache24\bin\httpd.exe -k start|
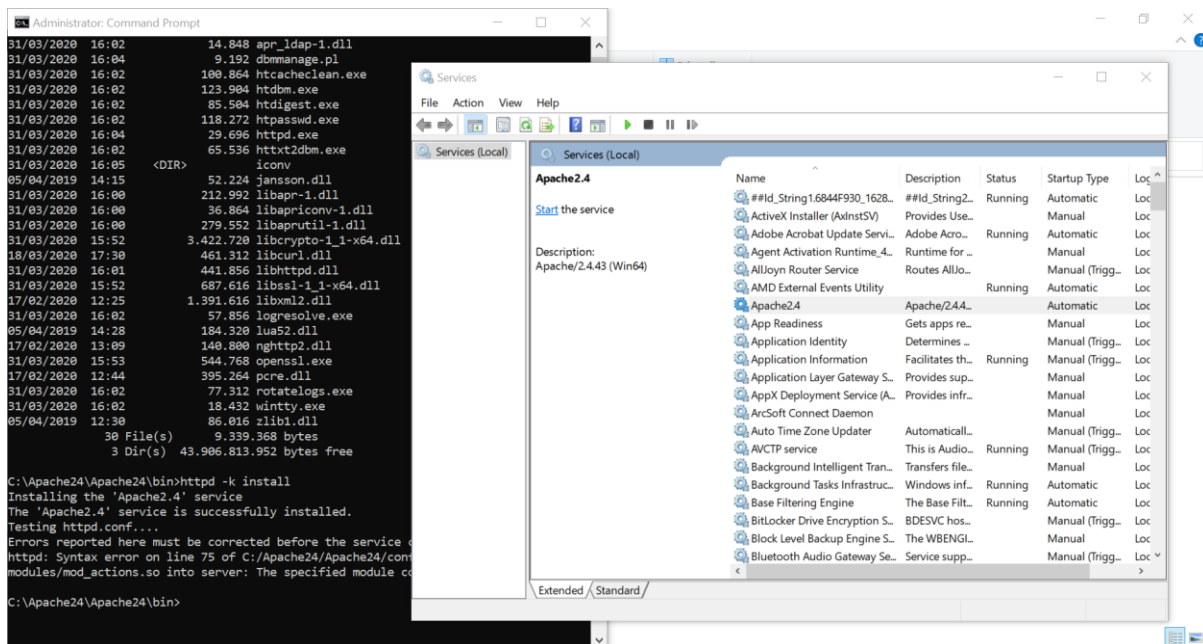
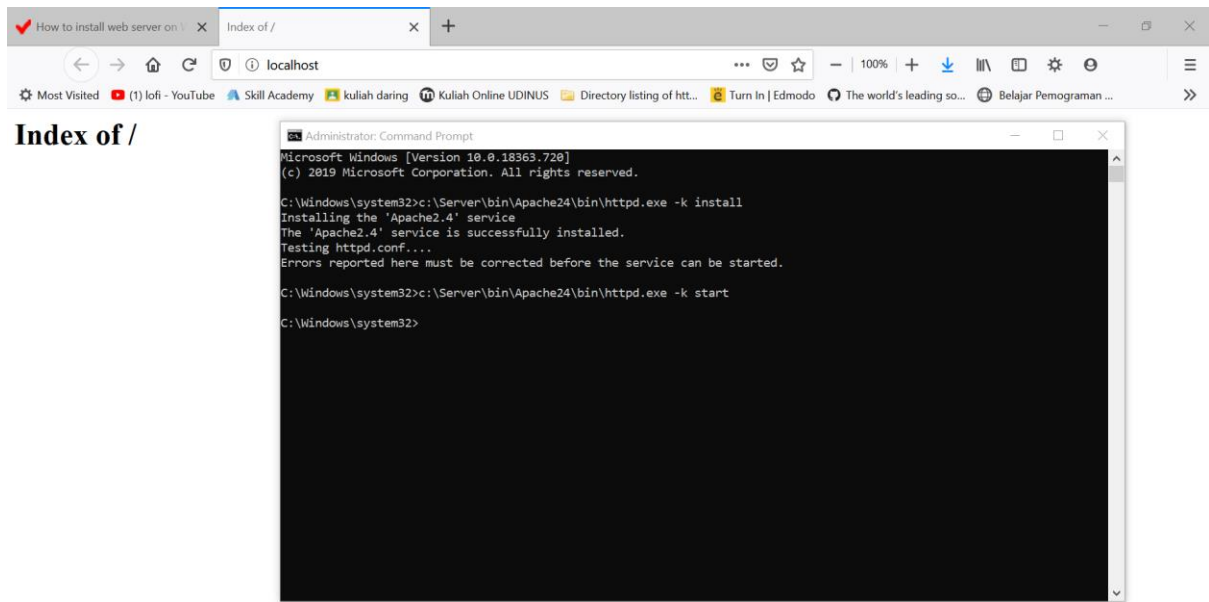Afterwards in your bowser follow the link http://localhost/

<http://localhost/> you'll see something like that

It means:

  * Apache works

  * directory *c:\Server\data\htdocs* is empty

You can play with your new shiny web-server: add html-files to the

folder, your server is running.

4. Installation and configuration MySQL 8.0 on Windows

In the *c:\Server\bin* folder unpack MySQL archive (the

mysql-8.0.11-winx64.zip file). Rename it to *mysql-8.0* (just for short).

Go inside the *mysql-8.0* folder and create *my.ini *file. Open this

file with any text editor. Copy-paste the following lines:

|[mysqld]|

| |

|sql_mode=NO_ENGINE_SUBSTITUTION,STRICT_TRANS_TABLES |

|datadir=||"c:/Server/data/DB/data/"|

|default_authentication_plugin=mysql_native_password|

Save and close it.

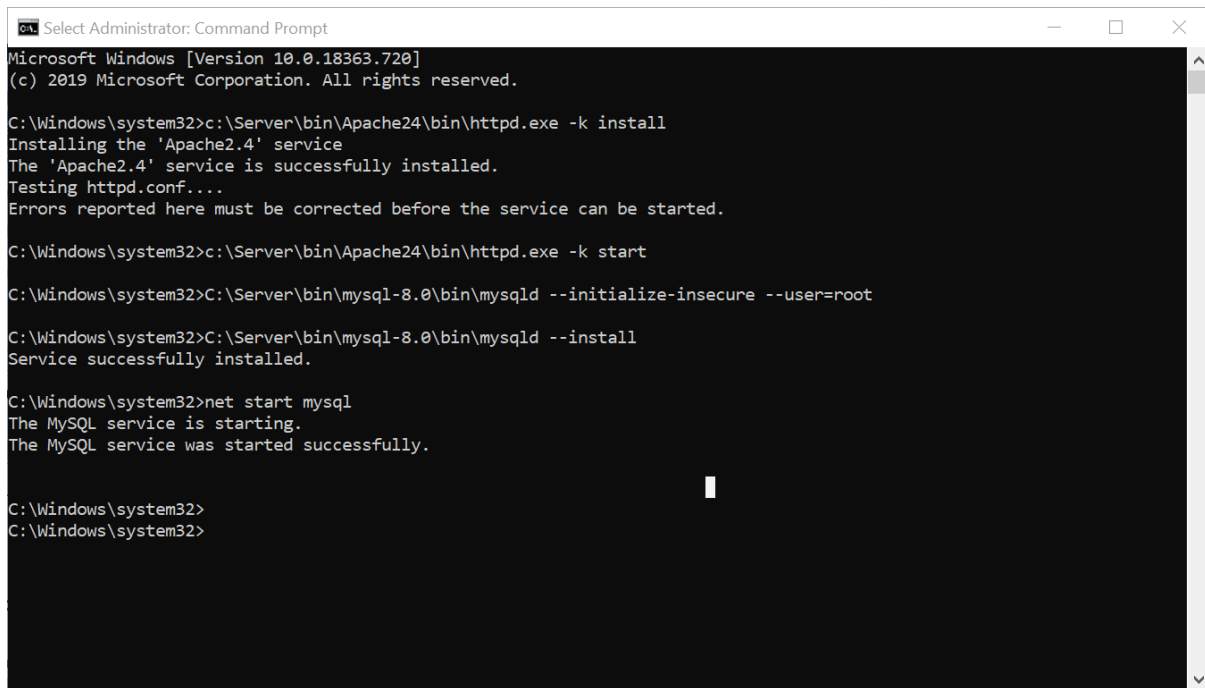Configuration is completed! But we have to initialize and install MySQL

8.0 on Windows. Open Command Prompt (as Admin) and run:

|C:\Server\bin\mysql-8.0\bin\mysqld --initialize-insecure --user=root|

|C:\Server\bin\mysql-8.0\bin\mysqld --||install|

|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.

If initialization failed and there is lack of files in the

C:\Server\data\DB\data folder and MySQL service failed to start, or

in the *C:\Server\data\DB\data*.err* file you got errors like that:

|[ERROR] InnoDB: Operating system error number 87 in a file operation|

|[ERROR] InnoDB: File .\ib_logfile101: 'aio write' return OS error 187.|

|[ERROR] InnoDB: Cannot continue operation|

To cope the issue, remove all files from *C:\Server\data\DB\data*

folder, and to the my.*ini file* add the line:

|innodb_flush_method=normal|

After that initialize MySQL again:

|C:\Server\bin\mysql-8.0\bin\mysqld --initialize-insecure --user=root|

|C:\Server\bin\mysql-8.0\bin\mysqld --||install|

|net start mysql|

Everyone who has issues with MySQL service, to fix it try to reset MySQL

installatoin and install in from scratch:

1. Remove the service:

|net stop mysql|

|c:\Server\bin\mysql-8.0\bin\mysqld --remove|

2. In the *c:/Server/data/DB/data/* folder remove all files

3. Initialize and install the service:

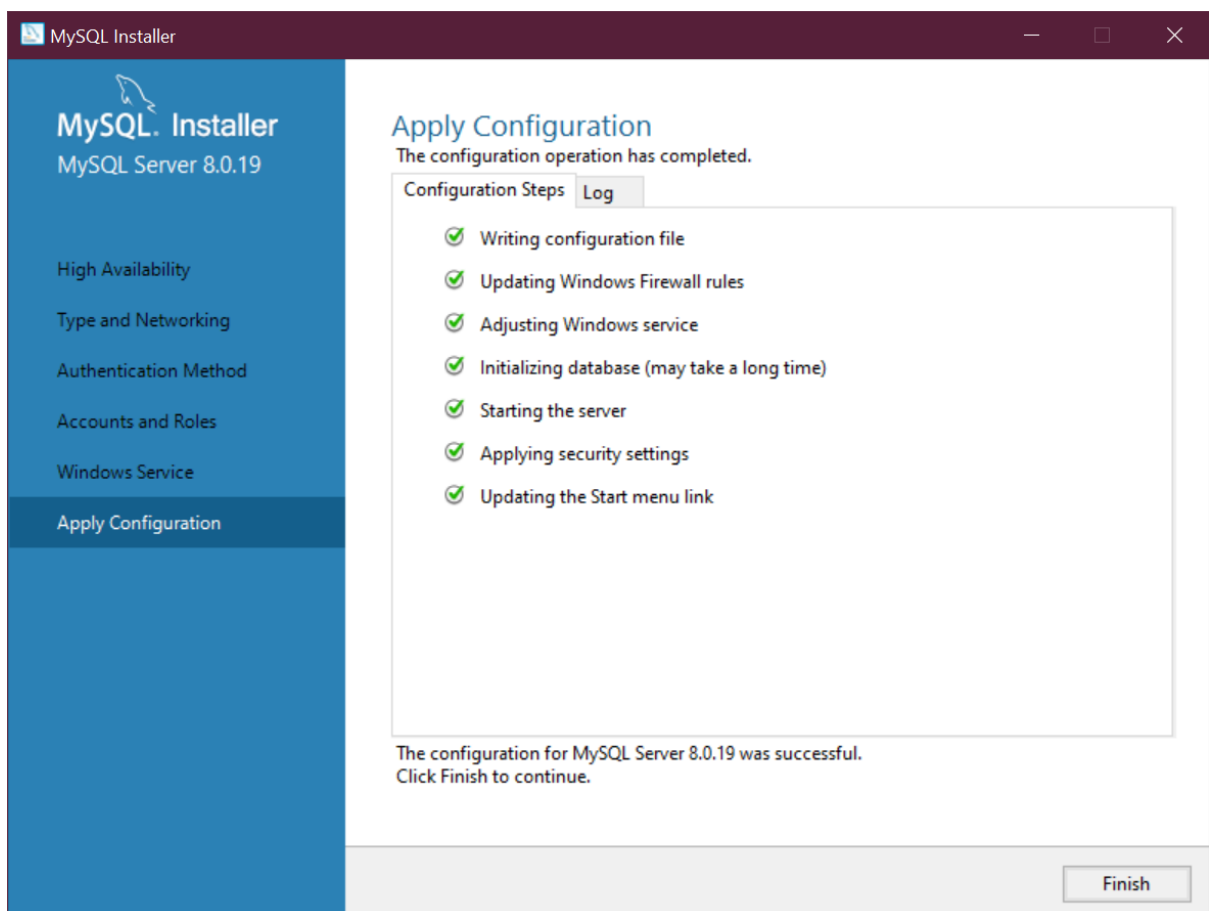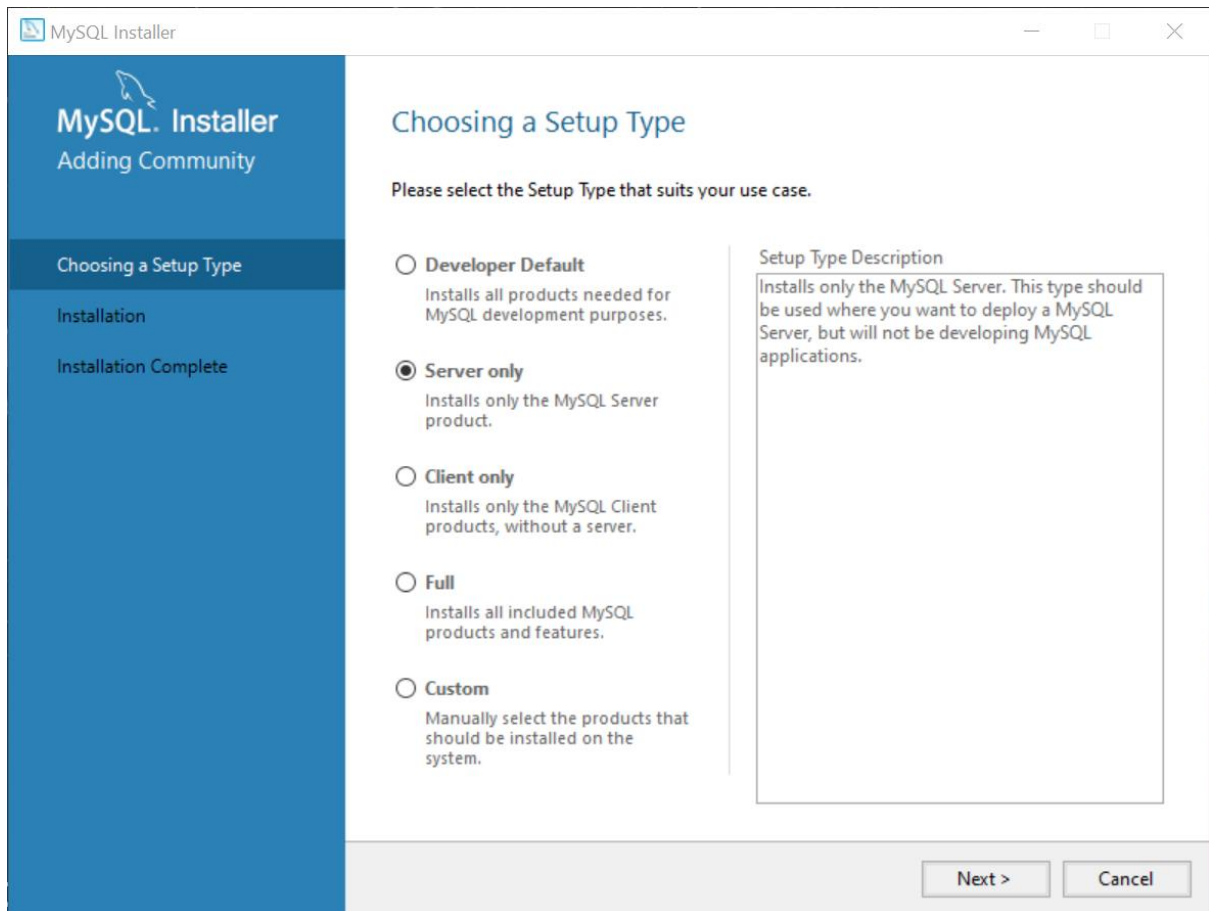|C:\Server\bin\mysql-8.0\bin\mysqld --initialize-insecure --user=root|

|C:\Server\bin\mysql-8.0\bin\mysqld --||install|

|net start mysql|

If the problem persists please provide the content of the

C:\Server\data\DB\data*.err file.

MySQL Installer

Choosing a Setup Type

Please select the Setup Type that suits your use case.

○ **Developer Default**
Installs all products needed for MySQL development purposes.

◉ **Server only**
Installs only the MySQL Server product.

○ **Client only**
Installs only the MySQL Client products, without a server.

○ **Full**
Installs all included MySQL products and features.

○ **Custom**
Manually select the products that should be installed on the system.

Setup Type Description

Installs only the MySQL Server. This type should be used where you want to deploy a MySQL Server, but will not be developing MySQL applications.

MySQL. Installer
Adding Community

Choosing a Setup Type
Installation
Installation Complete

Next >   Cancel

MySQL Installer

Apply Configuration

The configuration operation has completed.

Configuration Steps | Log

✅ Writing configuration file

✅ Updating Windows Firewall rules

✅ Adjusting Windows service

✅ Initializing database (may take a long time)

✅ Starting the server

✅ Applying security settings

✅ Updating the Start menu link

The configuration for MySQL Server 8.0.19 was successful.
Click Finish to continue.

MySQL. Installer
MySQL Server 8.0.19

High Availability
Type and Networking
Authentication Method
Accounts and Roles
Windows Service
Apply Configuration

Finish

5. Installation PHP 7 on Windows

In the *c:\Server\bin* create new *PHP *folder and copy there the

contents of php-7.1.1RC1-Win32-VC14-x64.zip.

Again open the *c:\Server\bin\Apache24\conf\httpd.conf* file and append

it with lines:

|PHPIniDir "C:/Server/bin/PHP"|

|AddHandler application/x-httpd-php .php|

|LoadModule php7_module "C:/Server/bin/PHP/php7apache2_4.dll"|

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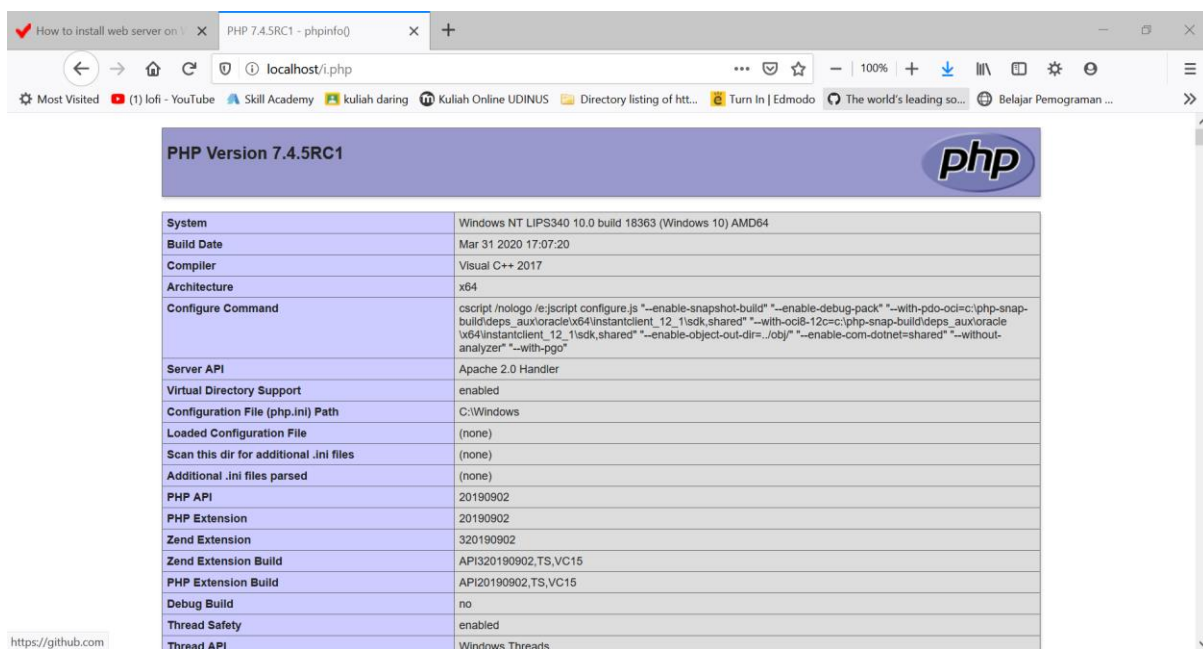
|c:\Server\bin\Apache24\bin\httpd.exe -k restart|

In the *c:\Server\data\htdocs* folder create *i.php* file and copy to

there:

|<?php|

|phpinfo ();|

In a browser open the http://localhost/i.php

<http://localhost/i.php> address. If you see something like this, it

means PHP works:

6. Installation and configuration phpMyAdmin on Windows

To the *c:\Server\data\htdocs* folder copy the content of
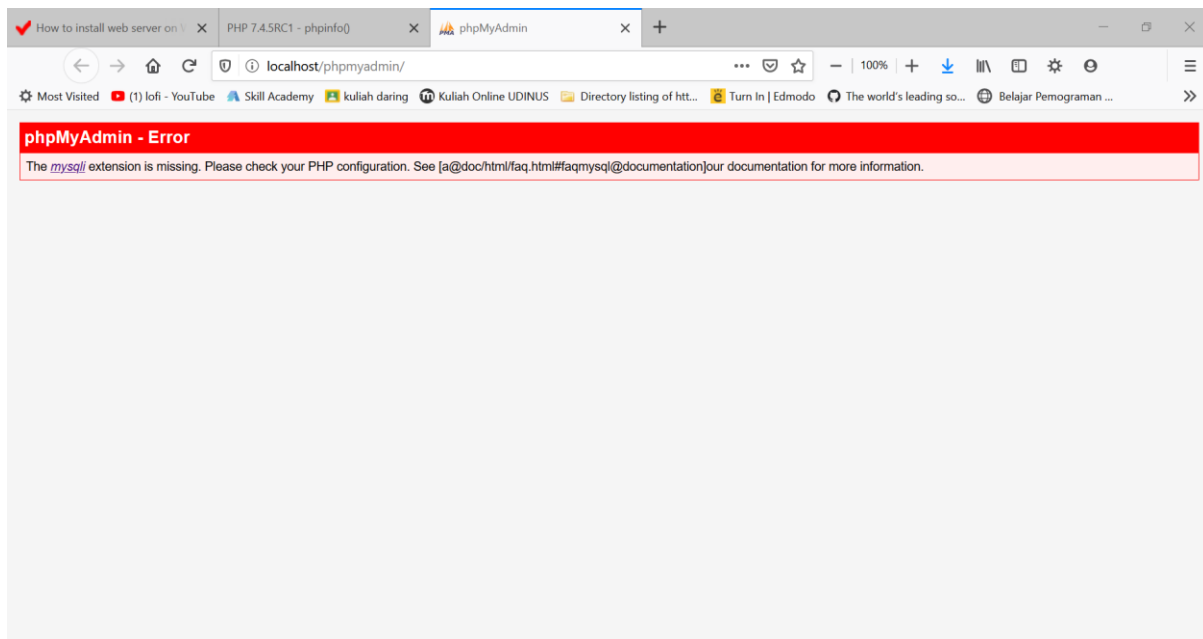
phpMyAdmin-4.6.5.2-all-languages.zip. Rename

phpMyAdmin-4.6.5.2-all-languages to *phpmyadmin *(for brevity).

In the *c:\Server\data\htdocs\phpmyadmin\ *folder create

config.inc.php file and copy there:

```php
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  ?>
```

Open in your browser http://localhost/phpmyadmin/

Enter *root *as name, do not fill password. If everything is fine it

should not look like that