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Manual install on Windows 7 with Apache and MySQL

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These are instructions for installing on Windows 7 desktop (they may also be useful for a server install with some thought to security) using individual components rather than a one click installer. This is intended only as a testing/evaluation install via 'localhost'. Proper server configuration and security is not considered.

NOTE: This assumes that you are comfortable with administering a Windows system and can use the command line. I never use Windows and I managed, but this may not be the quickest or most efficient way to do things. Make sure your Windows installation is in good shape, you clear out all the junk and stuff making it run slower (because installing all this server software certainly isn't going to make it run faster!) and that you have installed any outstanding updates.

ANOTHER NOTE: Watch out for the irritating "Do you want this program to get control of your computer" window that comes up at various stages. Sometimes it didn't appear but you do see a shield dimly flashing in the task bar. Click and say yes.

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Step 1: Install MySQL

- Install the MySQL database server on your PC. We will do this using the 'MSI' one-click installer for Windows. Go to <http://dev.mysql.com/downloads/> and download the 'MySQL Installer for Windows'. At the time of writing this was from a very obvious graphic at the top of the screen (which I missed the first time).
- Run the installation. Click...
 - Install MySQL products
 - Accept the license
 - Allow the version check (optional)
 - At 'Choose a Setup Type' accept the "Developer Default" and click Next
 - A number of downloads of required software may be identified. Click Execute and follow onscreen instructions to install them.
 - At 'Installation progress' screen, hit Execute - the MySQL software will be installed
 - At 'Configuration overview' hit Next to go to the basic configuration screen.
 - Accept all the defaults on the 'MySQL Server Configuration' and hit Next.
 - On the password screen, supply a password for the 'root' (main administrator) user. Make sure it's one you won't forget. You can also create a 'User' account just for Moodle with more restricted access if you like. This would be good practice on a public server but just using the 'root' user will suffice for testing.
 - On the Service details page, accept the defaults and hit Next and then Next a couple more times for the configuration progress.
 - Click Finish. Job done.
- MySQL Workbench will open. Under Server Administration (right hand column, double click 'Local MySQL56' (or whatever you called it). A box should pop up asking for the root password. Enter the password you supplied
- The server management screen should appear. You don't have to worry too much about this. It just shows the install is working.

Step 2: Install Apache

- Install the Apache web server on your PC. Go to <http://www.apachelounge.com/download/>. Scroll down the page until you find the download for the 'Apache 2.4 win32 binaries' and download. You need to be careful that the module dll in PHP matches the version of Apache you install. Apache won't load otherwise.
- Unzip the file into C:\. You should end up with a directory 'Apache24' (or whatever the latest version is).
- Find Start > All programs > Accessories > Command Prompt..... BUT, right click, and select 'Run as administrator'.
- Enter the following commands

```
cd \Apache24\bin
httpd -k install
httpd -k start
```

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...you may well get a warning that you need it again in a minute.

Close this window, you will

- To test it worked type `httpd -k start` in a console window. Apache is installed and working.

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Step 3: Install PHP

- Now install the PHP scripting language on your PC. Go to <http://www.php.net/download>. In the current stable release section click on link for Windows 5.x.x binaries and source. Scroll down to the newest 'Zip' for **VC14 x86 Thread Safe** (non thread safe doesn't have the Apache dll. the VC version may be different, and you may need x64 version) PHP (again, the newest versions of PHP didn't have this but it shouldn't matter) and download. *Don't* be tempted to use the Microsoft Installer version; it won't work.
- Open the zip file and extract to C:\PHP\
- In a console window, type `php -v` to see if it worked. (You may need to set up your PATH. Alos, if you get weird error messages, or no error messages at all, read the bit on the left of <http://windows.php.net/> where it talks about installing "C++ Redistributable for Visual Studio")

Step 4: Configure Apache and PHP

You now need to edit Apache's `httpd.conf` file. In the file explorer navigate to `C:\Apache24\conf\httpd.conf`. Open it in Notepad . At the end of this file (or wherever you like if you want to be more organised) add the following lines:

```
LoadModule php5_module "C:/PHP/php5apache2_4.dll"
AddHandler application/x-httpd-php .php
PHPIniDir C:/PHP
```

The version of the module file matters (2_4 in this case). It **MUST** match the Apache version installed.

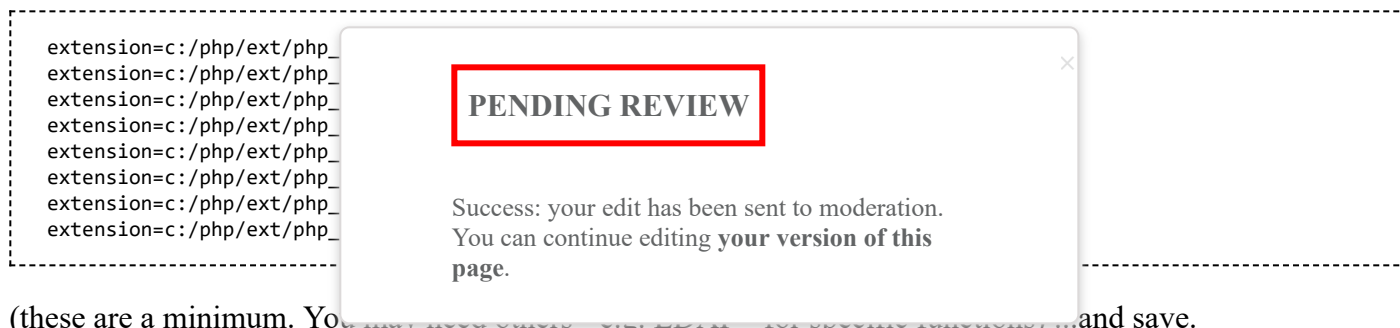
In the same file. Search for the line starting **DirectoryIndex**. Change it as follows

```
DirectoryIndex index.php index.html
```

Now, navigate to `C:\PHP`, and copy `php.ini-development` to `php.ini`. Edit this file, find the following lines and modify them as follows (all should exist already):

```
memory_limit = 256M
post_max_size = 128M
upload_max_filesize = 128M
```

You need to specify the extensions required for Moodle. Find the 'Dynamic Extensions' section and change the following lines (uncomment and add the correct path):



Back in the 'cmd' window for Apache, you need to restart it to load your changes...



Step 5: Test your install

Navigate to C:\Apache24\htdocs and create a file called 'test.php'. I had to change a file explorer setting to create .php files - Organise > Folder and search options > View and then untick 'Hide extensions for known file types'.

In this file enter the single line...



And then, in your browser, navigate to <http://localhost/test.php>. You should see a screen with masses of information and the PHP logo at the top. Check a few lines down for 'Loaded Configuration File' and make sure it says c:\php\php.ini.

That's PHP and Apache all working :)

Step 6: Install Git

We will use the Git version control system for loading and updating the Moodle software. If you really don't want to do this you can just download the latest Moodle zip file and unzip it in c:\Apache24\htdocs but Git makes updates MUCH easier. We need to install Git first...

- Go to <http://msysgit.github.com>. Navigate to 'Downloads' and download/run the latest installer.
- Accept defaults until you get to 'Adjusting your PATH environment'. Select 'Run Git from the Windows Command Prompt' at this point.
- Accept remaining defaults and install
- If you right click on folders in the file explorer you should now see additional Git commands.

Step 7: Install Moodle

- In the file explorer navigate to C:\Apache24\htdocs.
- Inside the folder, right click and select Git GUI
- Select 'Clone existing repository'
- Use the following settings for the clone...

Source location: https://
Target directory: C:/Apac

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- Click 'Clone'. Depend on the history is being done
- You should now have a 'moodle' directory inside 'htdocs'. Right click and select 'Git GUI' again - a more complex screen should now appear
- Click on the 'Branch' command and then 'Checkout...'.
Select the version of Moodle you want from the list, probably origin/MOODLE_24_STABLE. Make sure 'Tracking branch' is selected and click Checkout.
- Create a data directory for Moodle. It can be anywhere you like but I used C:\moodledata. Just create an empty folder
- Go to <http://localhost/moodle>. The language select page should come up and you are away. The installation is not covered in detail here but...
 - Data directory is C:\moodledata (or whatever you created)
 - Database user is 'root' (unless you created a more restricted user)
 - Database password is whatever you set installing MySQL

That should be it! Time for a cup of tea.

Upgrading Moodle

Retrieved from "https://docs.moodle.org/38/en/index.php?title=Manual_install_on_Windows_7_with_Apache_and_MySQL&oldid=128872"

Category: Installation

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