Installing Apache, PHP, MySQL on a Windows 98/2000/XP Computer

This tutorial shows you howto install Apache, PHP and MySQL on a Windows 98, 2000 or XP system. Few words... It is known that PHP and MySQL are until now the best combination of languages for the Web. The strong point is given by the programming fact that both of PHP and MySQL are Open Source, anybody could use secure and of course most used Web Server. it for free. And Apache is most powerfull. PHP and MySQL run on Windows and Unix/Linux platforms. For that reason of a dynamic website could be done on both design and implementation platforms.PHP and MySQL run on boths but which is recommended? Well, shortly: Windows for development, Unix/Linux for production. professional recomend that for two reasons: Every computer Windows is easyer to use, even by a newbie, but is not so stable and secure, and Unix/Linux is secure and of course stable. Also, on Windows you will find more development But please keep in mind, nobody encourage the usage of tools. Apache, PHP and MySQL on Windows Servers. Also before installing Apache Web Server on some windows systems please read the following documentation from http://www.apache.org/dist/httpd/binaries/win32/README.html Apache: Installation instructions step by step Step 1. Download Apache Web Server from the Internet Go to: http://archive.apache.org/dist/httpd/binaries/win32/ and download Apache Web Server. You must choose the version you want. The last is 2.2.2, so we recommend you to choose that version. If you version for Apache, if those modules are not compiled have external modules use the exact version. Some of this modules for that version of Apache then you must may be required if you want to install a complex PHP script, like a CMS (Content or other complex PHP Management System) a buletin board (forum) application. Pay attention to that: before installing Apache if you are a ASP other web sever like Personal Web Server or IIS developer and use then you must close that websever, because usualy it runs on the 80 port, that will be used by Apache, otherwise it won't work. After you've downloaded Apache, double click to install it. You will be asked to fill in the address of your webserver, at this point fill in "localhost". Step 2. On Windows click on Start button, choose Run, and type "cmd". After that a terminal window will appear. There type the following commands: cd c:\program files\apache group\apache\bin apache.exe -k install apache.exe -k start first command is not working see where apache is installed and type:

Step 3. Testing the Installation of Apache
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cd apache_installed_path/bin

Ok. We have installed Apache, now is time to test the proper working of

it. Open your Web Browser and type at address: http://localhost and After that a page shoud load into your browser press enter. with a message: "The Apache server is now installed on this web site!". If you

see this message then you've succesfuly installed Apache Web Server.

Installing Apache Web Server is an important step in getting to work

your Apache/PHP/MySQL system. If your Apache installation failed,

verify to not have other web server running. Also check httpd.conf file located in the

directory where you installed Apache.

You still cannot make Apache to work, visit Apache Website

(http://httpd.apache.org/docs/2.2/fag/support.html). More information about similar problems

you yours coud be found on Apache Mailing Lists

(http://httpd.apache.org/userslist.html).

Step 4. Download PHP from the Internet and configure it

Go to download page of PHP: http://www.php.net/downloads.php and

download the Windows Binaries version.

The file you've downloaded is a zip archive. You must unzip it and copy

in a directory for example in c:\php4win.

Create another directory where all your work file (php sourcecode) will

This directory coud be for example c:\phpwebsite. be holded.

> Copy the file c:\php4win\php-dist.ini from c:\php4win directory (where

the zip archive) to c:\php4win\php.ini file. you extracted

editor (notepad for example) and Edit c:\php4win\php.ini file with an text

modify the values doc root, and extension dir like in the

following example:

; paths and directories

doc_root = "c:\phpwebsite" extension_dir = "c:\php4win"

> Copy php.ini and php4ts.dll in c:\windows (or c:\winnt, if you've installed windows in winnt directory).

Delete php.ini file from c:\php4win directory.

After this PHP is installed into your system.

Step 5. Configuring Apache to work with PHP

Even if Apache Web Server is installed it is not configured to work with PHP files from static html

(apache knows only to respond to requests

to work with PHP we must edit the httpd.conf files). In order for Apache

file which is the Apache configuration file. To do that find and edit httpd.conf file,

located in C:\Program Files\Apache Group\Apache\conf\httpd.conf:

Find lines that contain DocumentRoot and Directory and change those lines like in the following example:

"C:/phpwebsite" and:

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<Directory "C:/phpwebsite"> After that, find line that contains: and after that add the following lines: application/x-tar .tgz ScriptAlias /php4/ "c:/php4win/" AddType application/x-httpd-php .php AddType application/x-httpd-php .php3

Carefuly make all modifications. Save the

file and restart Apache.

Atention! Apache

uses unix style slashes, so you must use

"/", instead of "\".

AddType application/x-httpd-php .php4

This is true only for Apache httpd.conf

file,

and download

not for php.ini file. So please be

Action application/x-httpd-php "/php4/php.exe"

Step 6. Verify working of Apache with PHP

Create a test.php file with the following

content and save it in

c:\phpwebsite:

<?php

phpinfo();

?>

You shoud see a Open your browser and type: http://localhost/test.php.

carefuly with that.

webpage with all informations about PHP functions and options available.

Step 7. Download MySQL from the Internet

Go to http://dev.mysgl.com/downloads/mysgl/5.0.html

Windows version. Depending

on the version you've downloaded you must

unzip into C: drive then double click on

After you have installed MySQL, start MySQL service (server). When that uses MySQL, this service must be always

developing PHP application

started.

To start mysql service go to C:\mysql\bin and launch mysqld.exe (you

setup.exe.

could create

a shortcut on the desktop for that).

If you want to be sure that the MySQL service is starting properly, first

time, for debuging

purposes is good to launch mysqld.exe from

command line:

Press Start / Run, type cmd, in cmd prompt type:

cd c:\mysql\bin

mysqld.exe

Step 8. Testing working of PHP with MySQL

Well, this is the last step in configuring your system to work with

Apache, PHP and connect to our MySQL database server, MvSQL. For that we we'll write a php code

create a database and insert into that database

the records from MySQL database.

a record. After that our program will display

Here is the program (copy-it into c:\phpwebsite):

<?php

mysql connect("localhost"); mysql query("create database testing database");

mysql_query("use testing_database");

mysql_query("create table my_record(name varchar(60))"):

mysql_query("insert into my_record(name) values ('John Doe')");

\$sql_query = mysql_query("select * from my_record");

while (\$row = mysql_fetch_array(\$sql_query))

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```
{
    print ("Added record: ".$row[name]."<br>");
}
mysql_close();
?>
```

Run this script. Press refress button from your

browser. At every refresh a record containing

John Doe name must be inserted into the database. If it does then your configuration

is successfuly.

Of course this is the basic instalation.

But is a complete one. In time

maybe you will need other things. For example when installing complex script warnings might appear on the screen. Or when trying to upload

files from your scripts uploading appear on the screen. Or when trying to is not working for files larger than 2mb.

In those situations you must modify php.ini from c:\windows or httpd.conf file acordingly,

depending of the error. You must find what variable shoud modify and from

where (php.ini or httpd.conf).

If you do all steps exactly as in this Tutorial you must have no problems

installing Apache, PHP and MySQL.

I wish you good luck with your Instalation!

If you found this tutorial useful you might be interested to read the

following:

PHP Form image verification
PHP Create Image Thumbnail
PHP Form Image Upload
PHP print random image from a folder
Count Words in a string using PHP

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