

TechNote: 5a-WordPress Install - PHP 5-2-x Setup

Introduction (1.1):

TechNote 5a in the WordPress installation and setup series reviews setting up PHP 5.2.x in an XP SP3 environment using IIS 5.1.

Introduction (1.1):	1
Prerequisites:	1
My Development Environment:	1
Special Notes:	2
Homework:	2
Choose which version to download:	2
Choose a distribution format:	2
Installer:	2
Installing PHP 5.2.9.2 Manually:	3
Create Install Folder:	3
Extract Zip File:	3
Configuring PHP:	4
Adding PHP to Window XP's PATH:	4
Making PHP.INI available to PHP in Windows XP:	5
Modifying PHP After Install:	6
Modify the Registry to point to the PHP.INI file:	7
Setup the ISAPI Module, Etc. in IIS:	9
Testing PHP and IIS:	19
Testing PHP and MySQL:	21
Next Step:	23

Prerequisites:

See TechNote: 0-WordPress Install Sequence On XP Pro plus Reference Links.

Note: If you are reading this install series for XP Pro and IIS 5.1 for the first time, it is highly recommended that you at least scan through the prior "pre-req" documents.

My Development Environment:

See TechNote: 0-WordPress Install Sequence On XP Pro plus Reference Links





Special Notes:

Trademark Note: the inclusion of screenshots, in this or other documents without a Trademark [™] symbol by my "FromTheRanks" Blog-site Title or Logo does not imply these are not Trademarked. They are. These are early in-development screenshots taken before the [™] was added.

Format Change: to accelerate the release of the WordPress TechNote series on www.fromtheranks.com, from TechNote 5a on I have changed the post content format. I have elected to provide basic introductory information only in the on-line post and the entire post (text and images) in the PDF version. Doing so allows me to publish (and update) the series far more quickly.

Homework:

PHP, aka Hypertext Preprocessor, is an embedded scripting language that provides a suite of tools for building dynamic websites. I can't guarantee that you will use PHP, and you may not if you use WordPress, and your selected WordPress template, in total vanilla-flavor mode. Should you discover you need to "tweak" things to make them more dynamic, however, PHP is a good tool for this.

My installs are geared towards Windows XP Pro Sp3. If you are running any other O/S, determine if it will run on your platform – most are acceptable but verify yours.

The descriptions of the downloads can be found at: http://us3.php.net/downloads.php.

See the "Binaries for other systems" comments to the left of the above page.

See the installation document for your selected O/S, mine was: <u>http://us3.php.net/manual/en/</u>.

Choose which version to download:

At the time of this writing, there is only one current version: PPH 5.2.x.

Choose a distribution format:

Complete Source Code: Not appropriate unless you are a PHP guru intent on "tweaking" code

Windows Binaries: For now, ignore the non-thread safe and debug packs

Zip package: This is my choice. It is an exception to my normal use of .MSI installers because I want to configure PHP for ISAPI, and from what I understand the .MSI version automatically sets up CGI. The file ID is: php-5.2.x-Win32.zip (Note: though there is now a "fastCGI", the current "best practices" is ISAPI both for speed and for security – see PHP's doc for more info on the security issues.)

Installer:

Unless you want CGI installed as a default, use the Zip package and do a manual install – I do not describe the CGI install. Its file ID is: php-5.2.9-2-win32-installer.msi





Download the correct version for your environment (Windows, Linux, etc.) and the correct Installation Package. As discussed above, download from: <u>http://us3.php.net/downloads.php</u>

Read up on Installing PHP in your XP environment: <u>http://us3.php.net/manual/en/install.windows.php</u>

Installing PHP 5.2.9.2 Manually:

Create Install Folder:

I recommend not installing anything on the C: drive that you don't have to. I'm putting mine out on my E: drive, ex: E:\PHP.

If you only have a C: or have tons of room on it and want to go "vanilla" then create a folder called: C:\php.

Note: do not create any install location with a name that includes spaces, ex: C:\My PHP Folder.

Extract Zip File:

Find your zip file, as per this example:



Double click on it and extract it into your installation folder. You'll end up with something like this:







neRanks™ of amentals of IT Described and Discussed

ն рнр						
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	<u>T</u> ools	Help				A
🕝 Back 🔹 🌍 🍷 🏂	jo se	earch 😥 Folders 🛄 🔹	Rolder Sync			
Address 🛅 E:\PHP						💌 🔁 Go
		Name 🔺	Size	Туре	Date Modified	~
File and Folder Tasks	۲	🛅 dev		File Folder	5/11/2009 3:59 PM	
		ext		File Folder	5/11/2009 3:59 PM	
Other Places	۲	🚞 extras		File Folder	5/11/2009 3:59 PM	
		DEAR .		File Folder	5/11/2009 3:59 PM	
🧼 Local Disk (E:)		🔊 aspell-15.dll	1,085 KB	Application Extension	4/9/2009 8:25 AM	=
📋 My Documents		🔊 fdftk.dll	408 KB	Application Extension	4/9/2009 8:25 AM	
Shared Documents		🔊 gds32.dll	339 KB	Application Extension	4/9/2009 8:25 AM	
😡 My Computer		🔊 go-pear.bat	1 KB	MS-DOS Batch File	4/9/2009 8:25 AM	
My Network Places		🗐 install.txt	95 KB	Text Document	4/9/2009 8:25 AM	
My Network Places		🔊 libeay32.dll	1,092 KB	Application Extension	4/9/2009 8:25 AM	
		🔊 libmcrypt.dll	163 KB	Application Extension	4/9/2009 8:25 AM	
Details	*	🔊 libmhash.dll	162 KB	Application Extension	4/9/2009 8:25 AM	
becomb	~	🔊 libmysql.dll	2,028 KB	Application Extension	4/9/2009 8:25 AM	
PHP		👏 libpq.dll	454 KB	Application Extension	4/9/2009 8:25 AM	
File Folder		📃 license.txt	4 KB	Text Document	4/9/2009 8:25 AM	
Date Modified: Today, May 1:	1,	💁 msql.dll	56 KB	Application Extension	4/9/2009 8:25 AM	
2009, 3:59 PM		🗐 news.txt	204 KB	Text Document	4/9/2009 8:25 AM	
		🔊 ntwdblib.dll	273 KB	Application Extension	4/9/2009 8:25 AM	
		👏 php5apache2.dll	37 KB	Application Extension	4/9/2009 8:25 AM	*

Configuring PHP:

Adding PHP to Window XP's PATH:

Start \rightarrow Settings \rightarrow Control Panel

Find and double-click on System (or right-click on My Computer \rightarrow Properties)

Go to "Advanced" tab

Click on the "Environment Variables" button

Under "System Variables" scroll down until you see the "Path" variable

Double click on the "Path" line. It will pop-up an "Edit System Variable" window

Add the path of the PHP folder you extracted the zip file into, before the entry for MySQL Server 5.1.

Note: doing so is the solution to a reported issue of PHP using the MySQL version of "libmysql.dll" rather than its own.

On *my* system the final result looks like this (yours will likely be a different location):







Edit System Varia	ble 🛛 🛛 🔀
Variable <u>n</u> ame:	Path
Variable <u>v</u> alue:	ms\DVD)E:\PHP;E:\MySQL Server 5.1\bin;
	OK Cancel

Don't forget to put the ";" after your insert, and one at the end of the string!

This approach makes sense if you look at how many copies of libmysql.dll there are - see image below. PHP should use its own copy. Note: another solution was given of deleting or renaming all copies of "libmysql.dll", except the one in the ... PHP folder. This seemed a bit drastic to me so I'll hold off on this option until tested.

Search Results					
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u>	ools <u>H</u> elp				
🕝 Back 👻 🌍 👻 🏂	🔎 Search 🛛 🄀 Folders	s 📰 🛛 🔞 Folder Sync			
Address 횓 Search Results				💌 🄁 Go	
Other Places 🙁	🔼 Name	In Folder	Date Modified	Size 🔺	~
	📄 🕥 libmysql.dll	E:\PHP	4/9/2009 8:25 AM	2,028 KB	
🚱 Desktop	📄 🔊 libmysql.dll	E:\MySQL Workbench 5.0 OSS	5/6/2008 8:58 PM	2,536 KB	
😡 My Computer	📄 🔊 libmySQL.dll	E:\MySQL Tools for 5.0	9/15/2008 1:01 PM	1,984 KB	1
A My Documents	📃 💽 libmysql.dll	E:\MySQL Server 5.1\lib\opt	4/1/2009 3:53 PM	2,304 KB	
Shared Documents	🔊 libmysql.dll	E:\MySQL Server 5.1\lib\debug	4/1/2009 3:53 PM	3,128 KB 🗧	-
My Network Places	🔊 libmySQL.dll	E:\MySQL Server 5.1\bin	4/1/2009 3:53 PM	2,304 KB 💊	~
S My Network Plates	~ <			> .:	.:

You can do the rest of these changes but the above won't take effect until your computer is rebooted.

Making PHP.INI available to PHP in Windows XP:

Windows knows where the PHP directory is, so now you need to let PHP know where its .INI file is. To do so:

Start \rightarrow Settings \rightarrow Control Panel

Find and double-click on System (or right-click on My Computer \rightarrow Properties)

Click on Advanced tab

Click on "Environment Variables" button

Select into the System Variables pane, i.e. put your cursor on it

Click on "New" button





Enter 'PHPRC' as the variable name and your PHP root directly (E:\PHP for me) as the variable value.

My setup looks like this, yours will most likely vary:

Edit System Varia	ıble	? 🔀
Variable <u>n</u> ame:	PHPRC	
Variable <u>v</u> alue:	E:\PHP	
		OK Cancel

If correctly entered, click on "OK" all the way out to the Control Panel. Note: you will see this variable the next time you scroll through the System variables pane.

Modifying PHP After Install:

Before editing the php.ini, go to your PHP root directory (E:\PHP for me) and create the following folders/directories:

create a folder called	"sessions"; ex:	e:\php\sessions	 used to store temp session files

create a folder called "upload"; ex: e:\php\upload - used for HTTP upload files

Find the sample .INI file "php.ini-recommended" file in the PHP root directly, e.g. for me E:\PHP.

Open this file and save it as "php.ini" in the same directory.

Find and enable or find and modify the following items:

Note 1: remove the ';' from the beginning of the line, if present, to enable it.

Note2: when tweaking code I add a comment line above anything I change so I can easily find it again (ex: ; enabled &/or modified on 5/11/09 by DPH to ...).

Note3: I've seen it both ways in various docs and I've tried it both ways – starting and stopping IIS in between – and it doesn't seem to make a difference whether there are quotes around the paths or not. So, I stayed with the "traditional" method. Be sure to use YOUR path to these locations, not mine!

<pre>open_basedir = "E:\PHP";"E:\Wordpress"</pre>
doc_root = "c:\inetpub\wwwroot"
error_log = syslog
extension_dir = "e:\php\ext"
upload_tmp_dir = "e:\php\upload"

- \leftarrow hasn't been set but look into it
- ← default location
- ← enable error log to XP's Event log
- ← except enter your location
- \leftarrow enable and change file from blank







session.save path = "e:\php\sessions" extension=php mysql.dll extension=php mysqli.dll mysql.default host = extension=php_mbstring.dll extension=php gd2.dll extension= php openssl.dll

- enable and change file from "/tmp"
- \leftarrow enable
- \leftarrow enable
- ← leave blank as the default is "localhost"
- ← enable if installing phpMyAdmin
- ← enable if installing phpMyAdmin
- ← enable for later use of SSL by WordPress*

* see TechNote XX: WordPress – Atahualpa – Adding Plugins And Widgets.

Note: as we are using IIS in ISAPI "mode" it is not necessary to set "cgi.force redirect" or cgi.force redirect" as you may read in other articles. These tweaks are for Apache or iPlanet servers only. Leave them remarked out.

Modify the Registry to point to the PHP.INI file:

Because you are doing a manual install, you need to set the Registry so that Windows knows exactly where the PHP.INI file is. Note: this is in addition to setting the PHPRC variable above.

BACKUP Your Registry FIRST!!!!

Start \rightarrow Run \rightarrow regedit

Click on "My Computer" so you're at the top of the hive

Got to: File \rightarrow Export

Its default save location is "My Documents", which is okay Enter and save it as a meaningful file name. I like "reg mmddyy.reg", ex: reg 051109.reg

Create a text file with Notepad called: "php ini filepath fix.txt".

Save it anywhere, but my preference is to put it in my PHP directory so I can find it again.

Put a comment on the first row exactly as follows: Windows Registry Editor Version 5.00

Add the following text on a new line (except put YOUR PHP directory, where YOUR PHP.INI file is):

[HKEY LOCAL MACHINE\SOFTWARE\PHP] "IniFilePath"="E:\\PHP"

My version looks like this:







Note: it is necessary to "escape" the back-slash after the drive letter, i.e. E:\\PHP is NOT a typo. If you had a more extended path you would have to "escape" all of the back-slashes.

Save the file and then change the extension from ".txt" to ".reg".

Double click on the file. You will get a pop-up that looks like this:

Registry	Editor 🛛 🕅
2	Are you sure you want to add the information in E:\PHP\php_ini_filepath_fix.reg to the registry?
	<u>Y</u> es <u>N</u> o

Click on the "Yes" button. If you've typed everything correctly you should see:

Registry	Editor 🔀
(į)	Information in E:\PHP\php_ini_filepath_fix.reg has been successfully entered into the registry.
	ОК

You can check your Registry to confirm, using run \rightarrow regedit. It should look something like this:

💣 B	legist	ry Ed	itor							×
File	Edit	<u>V</u> iew	Favorites	Help						
		• • 🕒				^	Name	Туре	Data	
		• • • •					(Default)	REG_SZ	(value not set)	
				_		~	ab)IniFilePath	REG_SZ	E:\PHP	
<							<			>
Му Со	ompute	er\HKE\	LOCAL_M	ACHINE\S	50FTWAR	RE\F	ΉP			





Notice the path in the status bar?

Setup the ISAPI Module, Etc. in IIS:

It is necessary to modify MMC to have IIS operate in ISAPI mode (for reasons discussed above). Now is the time to set this:

Start \rightarrow Programs \rightarrow Administrative Tools \rightarrow Internet Information Services

Under your local computer's name you'll see a folder called "Web Sites":

🝓 Internet Information Services				
<u>File Action View Help</u>				
	? ■ ₽ ▶ ■			
Conternet Information Services	Description	State	Host Header Name	IP Addres:
ilocal compute	🦽 Default Web Site	Running		* All Unass
<	<			>

Right click on "Web Sites" and select "Properties", then click on the "ISAPI Filters" tab:







eb Sites Pr	operties				?
Directory 9	Security	HTTP Headers	Custom I	Errors	ASP.NET
ISAPI	Filters	Home Direc	story	D	ocuments
Filters inst executed web sites.	in the order li	e active for all web sites sted below. These filter	s are not displ	iter and are ayed on in	e dividual
	Status	Filter Name	Priority		A <u>d</u> d
Ţ		sspifilt Compression md5filt pwsdata fpexedll.dll ASP.NET_2.0.50727.0	High High Low Low) Low		<u>R</u> emove Edit Disabl <u>e</u>
		ок с	ancel	Apply	Help

Click on the "Add" button and add a new filter, with the Filter Name as "PHP" and the "Executable" location for the "php5isapi.dll", probably in your PHP root directory. Mine is set up as follows:

Filter Properties					
<u>F</u> ilter Name:	PHP				
<u>E</u> xecutable:	E:\PHP\ph	np5isapi.dll			
			Browse		
	ОК	Cancel	Help		

Click "OK" to close. You will have a new look:





Veb Sites Pr	operties				? 🔀
	Directory Security ISAPI Filters		Custom ectory		ASP.NET Documents
		active for all web sit ed below. These fil			
ţ		Filter Name Compression nd5filt pwsdata pexedII.dll ASP.NET_2.0.5072 PHP	Priority High Low Low 7.0 Low * Unknown		Add <u>R</u> emove Edit <u>E</u> nable
Details Filter Na Status: Executa Priority:	* Cha ble: E:\PH	nged * IP\php5isapi.dll nown *			
	(ок 🗌	Cancel	Apply	Help

Note 1: the red down-arrow before "PHP" will turn to a green up-arrow after IIS is restarted.

Note 2: The priority for "PHP" will remain as "Unknown". There is nothing you can do to fix this. Here's a quote from Microsoft Article ID: 237471:

"ISAPI Filters that do not register with either High, Medium, or Low priority are marked as Unknown in the Microsoft Management Console (MMC). Filters marked as Unknown are called before all filters with any of the three priorities that have registered for the same notification. ... Note that Global Filters installed under the Master WWW Properties are called before a filter with the same priority installed under one of the Web Server instances."

Note 3: this is NOT setting up the ISAPI (URL) Rewrite filter for Permalinks. If / when we need to do this we'll come back to it.

Don't leave this window yet!!!!

Click on the "Home Directory" tab. Find "Execute Permissions:" and select "Scripts Only":





Directory Security	HTTP Headers	Custom Erro	ors	ASP.NET
ISAPI Filters	Home Direc	ory	Doc	cuments
When connecting to t	his resource, the content	should come fro	m:	
۲	A <u>d</u> irectory located on thi	computer		
0	A share located on anoth	er computer		
0	A redirection to a <u>U</u> RL			
.ocal Path:			D	vse
			0.01	
Scrip <u>t</u> source acces		g <u>v</u> isits		
		g <u>v</u> isits dex this resource		
Scrip <u>t</u> source acce				
Scrip <u>t</u> source acce <u>R</u> ead <u>W</u> rite				
Scrip <u>t</u> source acce <u>R</u> ead <u>W</u> rite Directory <u>b</u> rowsing				
Scrip <u>t</u> source acce <u>R</u> ead <u>W</u> rite Directory <u>b</u> rowsing				
Scrip <u>t</u> source acce <u>R</u> ead <u>W</u> rite Directory <u>b</u> rowsing Application Settings				nove
Script source acce <u>R</u> ead <u>W</u> rite Directory <u>b</u> rowsing Application Settings Application na <u>m</u> e:		dex this resource		
Scrip <u>t</u> source acce <u>R</u> ead <u>W</u> rite		dex this resource s>	Rer	nove
Script source acce <u>R</u> ead <u>W</u> rite Directory <u>b</u> rowsing Application Settings Application na <u>m</u> e:		dex this resource	Rer	
Script source acce <u>R</u> ead <u>W</u> rite Directory <u>b</u> rowsing Application Settings Application name: Starting point:	✓ In <web master="" propertie<="" td=""><td>dex this resource s></td><td>Rer</td><td>nove</td></web>	dex this resource s>	Rer	nove
Script source acce <u>Read</u> <u>W</u> rite Directory <u>b</u> rowsing Application Settings Application name: Starting point: Execute <u>P</u> ermissions:	✓ In <web master="" propertie<br="">Scripts only</web>	lex this resource s>	Rer	nove uration
Script source acce <u>Read</u> <u>W</u> rite Directory <u>b</u> rowsing Application Settings Application name: Starting point: Execute <u>P</u> ermissions:	✓ In <web master="" propertie<br="">Scripts only</web>	lex this resource s>	Rer	nove uration

Click on the "Configuration" button, this opens the "Application Configuration" window:





omTheRanks™ of IT Fundamentals of IT Described and Discussed

Application Co	onfiguration		×
Mappings Opl	ions Debugging Cache Options Proce	ss Options	
Cache ISA	PI applications		
← Application I			
Exten	Executable Path	Verbs	~
.rules	C:\WINDOWS\Microsoft.NET\Frame	GET, HEA.	
shtm	C:\WINDOWS\system32\inetsrv\ssin	GET, POS	
.shtml	C:\WINDOWS\system32\inetsrv\ssin	GET, POS	
.soap	C:\WINDOWS\Microsoft.NET\Frame	GET, HEA.	
.stm	C:\WINDOWS\system32\inetsrv\ssin	GET,POS	
.svc	C:\WINDOWS\Microsoft.NET\Frame	GET, HEA.	
.vb	C:\WINDOWS\Microsoft.NET\Frame	GET,HEA.	
.vbproj	C:\WINDOWS\Microsoft.NET\Frame	GET,HEA.	
.vsdisco	C:\WINDOWS\Microsoft.NET\Frame	GET, HEA.	
.webinfo	C:\WINDOWS\Microsoft.NET\Frame	GET,HEA.	
.xoml	C:\WINDOWS\Microsoft.NET\Frame	GET,HEA.	~
<			
Add	<u>E</u> dit <u>R</u> emove		
	OK Cancel Apply	П	elp

Click on the "Add" button, this will pop up the Add/Edit Application Extension Mapping window:

Add/Edit Applica	Add/Edit Application Extension Mapping				
E <u>x</u> ecutable:		Browse			
<u>E</u> xtension:					
Verbs					
⊙ <u>A</u> ll Verbs					
◯ <u>L</u> imit to:					
Script engine					
☑ Check that file e:	xists OK Cancel	Help			

Browse for the location of the "php5isapi.dll" – you may have to change File Type to see it. This DLL should be in your PHP root directory. Set the "Extension" to ".php". Set "Limit to" to: "All Verbs". Leave "Script engine" checked and "Check that file exists" checked (this slows "things" down just a tad but gives better error messages). For me it looks like this:





FromTheRanks[™] of IT The Fundamentals of IT Described and Discussed

Add/Edit Application Extension Mapping						
E <u>x</u> ecutable:	E:\PHP\php5isapi.dll	Browse				
<u>E</u> xtension:	.php					
Verbs O All Verbs						
O Limit to:						
 ✓ Script engine ✓ Check that file ex 	xists OK Cancel	Help				

Click "OK" back to the "Web Sites Properties" windows. Do NOT go all the way back to IIS.

Click on the "Documents" tab. You should see something like this:

Web Sites Properties	j		? 🔀
Directory Security ISAPI Filters	HTTP Headers Home Direc	Custom Errors	ASP.NET
Enable Default D Default h Default a index.htm	ocument tm sp	A <u>d</u> d	
Enable D <u>o</u> cumer		<u>R</u> emove	
		<u>B</u> rowse	
	ОК Са	ancel Apply	Help

In order to use the standard "index.php" file as a default content page, click on the "Add" button and enter "index.php" for the Default Document Name:





Add Default Document	
Default Document Name:	
index.php	
OK Cancel]

I don't know how much difference it makes but back on the "Documents" tab, I adjusted the order and put "index.php" at the top:

Web Sites Properties	? 🛛
Directory Security HTTP Headers ISAPI Filters Home Direc	Custom Errors ASP.NET ctory Documents
Enable Default Do <u>c</u> ument	
Default.htm Default.asp index.htm Default.aspx	Add <u>R</u> emove
Enable Document Footer	
	<u>B</u> rowse
ОКС	ancel Apply Help

Stop IIS by using run \rightarrow "net stop iisadmin" (use *instead of* run \rightarrow services.msc \rightarrow IIS Admin \rightarrow stop):







Run	? 🔀
-	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	net stop iisadmin
	OK Cancel Browse

You should see this. Enter 'y' and press the enter key:



If you were to check run \rightarrow services.msc you would see that the IIS Admin service has stopped.

Start IIS by using run \rightarrow net start w3svc (use *instead of* run \rightarrow services.msc \rightarrow IIS Admin \rightarrow start):

Run	2 🛛
-	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	net start w3svc 💌
	OK Cancel <u>B</u> rowse

The command prompt will display and show that World Wide Web Publishing is starting. A look back at run \rightarrow





services.msc would show that IIS Admin has started.

Note: after restarting I opened up Internet Information Services window to verify further and noticed that the "Default SMTP Virtual Server" hadn't been restarted. I selected it, right-clicked on it and selected "start" and it fired right up. Probable glitch in the net start w3svc command.

Note from the PHP manual install manual: "If you experience 100% CPU usage after some time, turn off the IIS setting Cache ISAPI Application". That option is here, in the upper left hand corner:

Appli	icatior	ı Config	guration						
Мар	pings	Options	Debugging	Cache Options	Proce	ss Options			
	Cache ISAPI applications								
		on Mapp							
						Vala			
	Exten.	Ex	ecutable Path	l		Verbs			
	.asa	C:V	WINDOWS\s	ystem32\inetsrv\	asp.dll	GET, HEA			
	.asax	C:V	WINDOWSAN	dicrosoft.NET\Fra	ame	GET,HEA			
	.ascx	C:V	WINDOWSAN	/icrosoft.NET\Fra	ame	GET, HEA			
	.ashx	C:V	WINDOWS\N	/licrosoft.NET\Fra	ame	GET,HEA			
	.asmx	C:V	WINDOWS\N	/licrosoft.NET\Fra	ame	GET, HEA			
	.asp	C:V	WINDOWS\s	ystem32\inetsrv\	asp.dll	GET, HEA			
	.aspx			/ icrosoft.NET\Fra		GET, HEA			
	.axd	C:V	WINDOWSM	/icrosoft.NET\Fra	ame	GET, HEA			
	.cdx	C:V	WINDOWS\s	ystem32\inetsrv\	asp.dll	GET, HEA			
	.cer			ystem32\inetsrv\		GET, HEA			
	.config			/icrosoft.NET\Fra		GET, HEA			
	_		200505200	C ONETHE		OFT USA			
	<					>			
	Ad	İd	<u>E</u> dit	<u> </u>	ove				
			к	Cancel	Apply		Help		
					DPPV				

There is one more thing to check, while you are at it. Click "OK" on the Mappings tab to go back to the Properties tab. Click on the "Directory Security" tab. You should see something like this:





fromtheranks Propert	ies	? 🛛		
HTTP Headers	Custom Errors	ASP.NET		
Virtual Directory	Documents	Directory Security		
Anonymous access and	Anonymous access and authentication control			
	nonymous access and edit the ation methods for this resource.	<u>E</u> dit		
-IP address and domain	IP address and domain name restrictions			
Grant or deny access to this resource using IP addresses or internet domain names.				
		Edjt		
Secure communication	s			
	ecure communications and ent certificates when this	Server Certificate		
resource i	s accessed.	View Certificate		
		E <u>d</u> it		
	OK Cancel	Apply Help		

Click on the "Edit" button. It should be setup something like this, except with your machine's name after "IUSR_". You may want to change this on a production box, but for development this is fine.:





omTheRanks™ of Fundamentals of IT Described and Discussed

A	uthenticatio	n Methods	X		
1	No user name/password required to access this resource.				
	Account used	for anonymous access:			
	<u>U</u> ser name:	IUSRBrowse			
	<u>P</u> assword:				
		Allow IIS to control password			
	Authenticated access For the following authentication methods, user name and password are required when - anonymous access is disabled, or - access is restricted using NTFS access control lists				
	Digest authentication for Windows domain servers				
	Basic authentication (password is sent in clear text)				
	Default <u>d</u> on	nain: Select			
	<u>R</u> ealm:	S <u>e</u> lect			
	✓ Integrated Windows authentication				
		OK Cancel <u>H</u> elp			

Testing PHP and IIS:

Now is a good time to reboot your computer to make sure PATH, etc., is properly set and recognized.

It should be, but, just to be safe, make sure IIS is running.

For a quick test, using a basic text editor like Notepad, create a file called <u>test.php</u>. Its content is simply:

<?php phpinfo(); ?>

Save "test.php" in: c:\inetpub\wwwroot

After restarting IIS open IE and on the URL line, enter:

http://localhost/test.php

Note: later on after your local site is further setup this URL will change.

If all is well, at this point anyway, you should see something like the following:





omTheRanks™ of IT undamentals of IT Described and Discussed

C phpinfo() - Wind	ows Internet Explorer			
🕒 🗸 🖉 http	p://localhost/test.php 🛛 🖌 🖌 Live Search	ρ-		
Z ZONEALARM® SPY BLOCKER - Search Web -				
🚖 🕸 🌈 phpinfo	0 👘 🔹 📾 🔹 🔂 Page 🔹 🎯 Tools	• »		
PHP Versior	n 5.2.9-2			
System	Windows NT 5.1 build 2600			
Build Date	Apr 9 2009 08:22:37			
Configure Command	cscript /nologo configure.js "enable-snapshot-build" "enable-debug-pack" "with- snapshot-template=d:\php-sdk\snap_5_2\vc6\x86\template" "with-php-build=d:\php- sdk\snap_5_2\vc6\x86\php_build" "with-pdo-oci=D:\php-sdk\oracle\instantclient10 \sdk,shared" "with-oci8=D:\php-sdk\oracle\instantclient10\sdk,shared"			
Server API				
Virtual Directory Support	enabled			
Configuration File (php.ini) Path	C:WINDOWS			
Loaded Configuration File	E:\PHP\php.ini	~		
<		>		
	Second Seco	•		

Don't worry about the "NT" designation, XP is based on the original NT O/S. And, do you notice the "C:\WINDOWS"? Even when you have everything "pathed" correctly this "hangs around". This drove me crazy, until I found out this value is hard-coded (compiled) into the function and there is no way to change it. [Thanks to Peter Guy of <u>www.peterguy.com</u> for the tip.]

There is a second test script that you might want to run. I found this on the PHP web-site:

Create a new Notepad file called something like: test-php-ini-loaded.php

Save it in c:\inetpub\wwwroot (or your root directory as appropriate)

Add this code to it exactly as shown:

```
<?php
$inipath = php_ini_loaded_file();
```

```
if ($inipath) {
```





```
echo 'Loaded php.ini: ' . $inipath;
} else {
    echo 'A php.ini file is not loaded';
}
?>
```

Then run it from your localhost, i.e. <u>http://localthost/test-php-ini-loaded.php</u>

You should see something like this:

🖉 http://localhost/test-php-ini-loaded.php - Windows Internet Explorer 📃 🗖 🔀			
🚱 🕤 👻 http://localhost/test-php-ini-loa 🕶 😚 🗙 Live Search			
Z ZONEALARM® SPY BLOCKER - Search Web -			
😭 🏟 🌈 http://localhost/test-php-ini-load	🟠 🔹 🗟 🔹 🖶 🔹 🔂 Page 🔹 🍈 T <u>o</u> ols 🔹 🎽		
Loaded php.ini: E:\PHP\php.ini			
Done	Socal intranet 🔍 🔍 100% 🔻 🛒		

Testing PHP and MySQL:

There is an elegant test example in the article "How To Install MySQL and PHP on IIS 6.0" found on <u>www.iisadmin.co.uk</u>, posted on 5th September, 2007. The test is on "Page 4". IIS 6 runs on Server 2003, of course, but this test should work for IIS 5.1 – when I have some time I'll try it out.

There is a shorter test which I found at: <u>http://www.artfulsoftware.com/php_mysql_win.html</u>

Its down at "6. Test" and includes a simple PHP script. Again. Make sure IIS and MySQL are running – I mention this because I forgot to start MySQL before trying this test -- paint my cheeks pink – and, of course, it failed. Kind of goes back to the early days of: "Is your computer plugged in?"

As a third option, you can build this script which I found the framework for somewhere on the web but can't, for the life of me, recall where. If it works properly you should be in good shape:

Create a Notepad file called test-php-mysql-connection.php

Save it in the c:\inetpub\wwwroot directory (or as appropriate for your system)

Add this code to it (everything between 'c.' and 'd.'):

```
<?PHP
//first param is server name, 2nd is username 'root', 3rd is YOUR password
$rst = @mysql_connect("localhost","root","<your password>");
```





```
if (!$rst){
echo( "PHP unable to connect to the database manager.");
die('Could not connect: '. mysql_error());
exit();
} else {
echo("PHP successfully Connected to the MySQL Database Manager.");
}
if (! @mysql_select_db("mysql") ){
echo( "PHP unable to connect database...");
exit();
} else {
echo("PHP successfully Connected to the Database 'MYSQL'.");
}
?>
```

Then run it from your localhost, i.e. <u>http://localthost/test-php-mysql-connection.php</u>

You should see something like this:

🖉 http://localhost/test-php-mysgl-connection.php - Windows Internet Explorer 🔳 🗖 🔀			
🚱 🗸 🖉 http://localhost/test-php-mysql 🖌 🚱 🗙 Live Search			
ZONEALARM® SPY BLOCKER - Search Web -			
🚖 🕸 🌈 http://localhost/test-php-mysql-c 🥂	🛐 🔹 🗟 🔹 🖶 👻 🔂 Page 🗸 🎯 T <u>o</u> ols 🗸 🎽		
PHP successfully Connected to the MySQL Database Manager. PHP successfully Connected to the Database 'MYSQL'.			
FIF succession y connected to the Database WITSQL .			
Done	New York Street		

If you have an invalid password (or code error), you will see something like this:





🏉 http://localhost/test-php-mysql-connection-2.php - Windows Internet Expl 🔳 🗖 🔀			
🚱 🗸 🖉 http://localhost/test-php-mysql 🖌 😽 🗙 Live Search			
ZONEALARM® SPY BLOCKER - Search Web -			
😭 🏟 🌈 http://localhost/test-php-mysql-c 🧰 🏠 🔹 🖾 🔹	🖷 🖶 🕈 🔂 Page 🔹 🍈 Tools 🔹 🎽		
PHP unable to connect to the database manager. Could not connect: Access denied for user 'root'@'localhost' (using password: YES)			
Done	itranet 🔍 100% 🔻 🛒		

PHP should now be setup and ready for use.

Next Step:

Technically the next TechNote in the series (TechNote: 5b-WordPress Install - IIS 5-1 PHP 5-2-9-2 phpinfo Tests) is not required reading. It documents some additional testing I did to confirm that PHP was properly installed. I did this testing because the phpinfo () function incorrectly reported the value for "Configuration File (php.ini) Path. While "slightly" off-track, this TechNote is well worth the read as, at the very least, it will familiarize you with the PHP scripting language, and the architecture of your development site.

However, you can skip this document and go directly to the next in the series. If that is your wish, see: TechNote: 6-WordPress Install - IIS 5-1 Adding A Virtual Directory.

