ITEC321 - Administering Web-based Content Management System

## Installation of WordPress

## System requirements for WordPress

Database: MySQL 5.0 +

**Web Server :** WAMP (Windows) , LAMP (Linux), XAMP (Multi-platform), MAMP (Macintosh), Operating System – Cross-platform

Browser Support : IE (Internet Explorer 8+), Firefox, Google chrome, Safari, Opera

PHP Compatibility: PHP 5.2+

## How to Install WordPress on your Windows Computer Using WAMP

#### Step 1. Installing WAMP on Windows Computer

First, you need to download the WAMP software and install it on your computer. Simply go to the WampServer website and click on the 'Start Using WampServer' button.

#### http://www.wampserver.com/en/



It will take you to the downloads section. You'll see two versions here: WampServer 32 bits and WampServer 64 bits. You need to select the WampServer version that matches the operating system type of your Windows computer.



To find out whether you are using 32 or 64-bit operating system, go to **Control Panel** » **System and Security** » **System** in your computer. There you will be able to see your operating system type.

Control Panel Home	View basic information	about your compute	er	
Device Manager	Windows edition			
Remote settings	Windows 10 Pro			
System protection	© 2015 Microsoft Corpora	tion. All	$\Lambda/i$	ndo
Advanced system settings	rights reserved.		VVI	nuo
	Next			
	System			
	Processor:	Intel(R) Core(TM) i7-4790	CPU @ 3.60	OGHz 3.59 GHz
	Installed memory (RAM):	2.97 GB		
	System type:	64-bit Operating System,	x64-based p	orocessor
	Pen and Touch:	No Pen or Touch Input is	available fo	r this Display
	Computer name, domain, and	workgroup settings		
	Computer name:	DESKTOP-UEHOUP		(

Once downloaded, you can click on the wampserver execution file to run the installation. Make sure that you carefully follow the instructions on the installation screen.

setup - wa	mpservero4				-	-		~
Select Des	tination Loca	tion						
Where sh	ould Wampser	ver64 be insta	alled?				į	j
1	Setup will insta	ll Wampservei	r64 into the	following	folder.			
To contin	ue, dick Next.	If you would l	ike to selec	t a differer	t folder, clic	k Brow	se,	
c:\wamp	64					Brow	vse	
At least 2	,970.9 MB of 1	free disk space	e is required	I.				
pserver 3.1	4 Install by In	na Setup			-	-		
	At least 2	Select Destination Loca Where should Wampser Setup will insta To continue, dick Next. Continue, dick Next. Continu	Select Destination Location Where should Wampserver64 be insta Setup will install Wampserver To continue, click Next. If you would I Estwamp64 At least 2,970.9 MB of free disk space	Select Destination Location Where should Wampserver64 be installed? Setup will install Wampserver64 into the To continue, click Next. If you would like to select Select Destination of the click space is required Setup will install by Inno Setup	Select Destination Location         Where should Wampserver64 be installed?         Setup will install Wampserver64 into the following f         To continue, click Next. If you would like to select a different         State 2,970.9 MB of free disk space is required.         Operating 3.1.4 Install by Inno Setup	Select Destination Location         Where should Wampserver64 be installed?         Setup will install Wampserver64 into the following folder.         To continue, click Next. If you would like to select a different folder, clic         State 2,970.9 MB of free disk space is required.         Server 3.1.4 Install by Inno Setup	Select Destination Location         Where should Wampserver64 be installed?         Setup will install Wampserver64 into the following folder.         To continue, click Next. If you would like to select a different folder, click Brow         Style="text-align: center;">Setup will install Wampserver64 into the following folder.         To continue, click Next. If you would like to select a different folder, click Brow         Style="text-align: center;">Setup will install Wampserver64 into the following folder.         To continue, click Next. If you would like to select a different folder, click Brow         Style="text-align: center;">Setup will install Wampserver64 into the following folder.         To continue, click Next. If you would like to select a different folder, click Brow         Style="text-align: center;">Setup will install Wampserver64 into the following folder.         Style="text-align: center;">Manuel center;         Style="text-align: center;">Setup will install Wampserver64 into the following folder.         Style="text-align: center;">Setup will install wampserver64 into the following folder.         Style="text-align: center;">Setup will install wampserver64 into the following folder.         Style="text-align: center;">Setup will install wampserver64 into the following folder.         Style="text-align: center;">Setup wat	Select Destination Location         Where should Wampserver64 be installed?         Setup will install Wampserver64 into the following folder.         To continue, dick Next. If you would like to select a different folder, dick Browse.         Stymestic         Browse         At least 2,970.9 MB of free disk space is required.         operver 3.1.4 Install by Inno Setup

During the installation process, you need to define the location for the web browser. By default, it will be Internet Explorer. You can change that to Google Chrome or any other web browser by locating it in the Program Files of your computer.

Once installed, you can launch the WampServer to continue.

#### **Step 2. Setting Up a Database for Local WordPress Setup**

Next thing you need to do is to create a blank MySQL database. On launching WAMP, you'll see a green WampServer icon at the bottom right corner of your screen along with other icons. Simply click on it and then click on phpMyAdmin (a web based application to manage MySQL databases).

**Note:** If the WampServer icon is red or yellow, then it means the services (Apache, MySQL, PHP) are not running. You need to start the services by clicking on the icon before setting up the database.

	C Localhost	1000	
	phpMyAdmin	4.8.3	
	Adminer	4.6.3	
	阈 Your VirtualHost	ts	•
	📄 www directory		
6	😽 Apache	2.4.35	•
5	😺 РНР	7.2.10	•
200	MySQL	5.7.23	•
	MariaDB	10.3.9	•
	3.1.4 - 64bit - S	ervices	
	Start All Services		
	Stop All Services		
	Restart All Service	es:	

It will take you to the phpMyAdmin login screen on your web browser. Simply enter the username: **root** and leave the password field blank. These are the default credentials to login into your localhost phpMyAdmin.

		hpMuAdmin	
	Welc	ome to phpMvAdmin	
		one to public Admin	
	English	•	
	Lugion	<u></u>	
đ	Log in 😡		
i i	Username:	root	Ì.
1	Password:		
	Server Choice:		
		MySQL	

Click on the 'Go' button to continue.

Once logged in, you need to click on Databases in phpmMyAdmin to create a new database for WordPress. It will ask you to choose a name for your new database (we named ours test\_db). After that click on the 'Create' button.

Databases	SQL	status	User accounts	Export	**
Database	)S				
			-		
G Create data	base 😡			2	

Your database is ready which means you can now install WordPress on localhost.

#### Step 3. Installing WordPress on Windows Using WAMP

The next thing you need to do is download the latest version of WordPress from the WordPress.org website. It will download as a zip file.

#### https://wordpress.org/



You need to extract the zip file and copy the 'wordpress' folder.

1		2		hin		12			(E
Add	Extract To	Test	View	Delete	Find	Wizard	Info	VirusScan	Con
1	🚾 wordpress	-4.9.8.zip	- ZIP archi	ve, unpack	ed size 27,	,271,400 by	tes		
		+				2488	1.121 226 3351	1049	
Name		0				Size	Packed	Туре	
Name		0				Size	Packed	Type File folder	

Now you need to navigate to the folder where you installed WAMP.

In this tutorial, we installed WAMP in C:\wamp64, so we'll refer to that folder going forward. But keep in mind, it may be different for you depending on where you installed the program.

Paste the 'wordpress' folder into the C:\wamp64\www folder.



You can rename the 'wordpress' folder to anything you want, such as mysite, testsite, etc. This will be the URL of your local WordPress site, so be sure to choose something you'll remember easily.

For the sake of this tutorial, we renamed the folder from wordpress to mysite.

Next, you can open the web browser and go to http://localhost/mysite/

First, it'll ask you to select a language and then show you the database setup information. Once you have read it carefully, go ahead and click on the 'Let's go' button to continue.



After that, you need to enter your database details like database name, username, password, host, and table prefix.

The database name will be the one that you entered in the previous step. In our case, we called it 'test\_db'. The username will be 'root', and you can leave the password field blank. You can also leave the database host and table prefix as-is.

Selow you should ent	er your database connection details. If yo	ou're not sure about these, contact your host.
Database Name	test_db	The name of the database you want to use with WordPress.
Jsername	root	Your database username.
Password		Your database password.
Database Host	localhost	You should be able to get this info from your web host, if localhost doesn't work.
fabl Pro Ix	wp_	If you want to run multiple WordPress installations in a single database, change this.

Next, click on the 'Submit' button and WordPress will create a configuration file for you in the backend.

On the next screen, you will see a success message stating that WordPress is connected to your database, and you can proceed with the installation.

Go ahead and click on the 'Run the installation' button to continue.



It will take you to the welcome screen for WordPress. You need to add a title for your new WordPress website, choose an admin username, enter a strong password, and provide an admin email address.

Once you're ready, click on the 'Install WordPress' button.

Please provide the fol	lowing information. Don't worry, y	ou can always change these settings later.	
Site Title	My Site		
Username	admin		
	Usernames can have only alphanumer symbol.	ic characters, spaces, underscores, hyphens, periods, and the $\oplus$	
Password	•••••	Show	
	Strong		
	Important: You will need this pass	word to log in. Please store it in a secure location.	
Your Email	john@example.com		
	Double-check your email address befo	pre continuing.	
Search Engin	Discourage search engine	s from indexing this site	
Visibility	It is up to search engines to honor the	s request.	
r			
Install WordPress			

After the installation process is complete, you'll see a success message. In the background, WordPress has created new tables in your database and it's ready to use. You can then proceed to your WordPress dashboard by clicking on the 'Log In' button.

Success!		
WordPress has been	n installed. Thank you, and enjoy!	
Username	admin	
Password	Your chosen password.	

Congratulations, you have successfully installed WordPress on a Windows computer using WAMP.

#### **Step 4. Enabling Pretty Permalinks in WAMP**

The new version of WordPress doesn't break your local site on changing the permalinks setting.

However if you still see the 'page not found' error on your pages after changing the permalinks from **Settings** » **Permalinks** in WordPress, then simply follow our guide on how to enable custom permalinks in WAMP.

#### \*\*\*Step 5. Troubleshooting WAMP Issues\*\*\*

WAMP is quite easy to use even for beginners. However, if you are unable to get it running, then the following troubleshooting tips would help.

#### Fixing the WAMP Skype Conflict

If you have Skype installed and running, then WampServer may not be able to work properly due to a conflict with Skype. The conflict is caused by both Apache and Skype using the same port 80. There is a simple fix for this problem.

Open Skype and go to **Tools** » **Options**. This will bring up a dialog box, from here you need to click on Advanced and then Connections. Skype<sup>™</sup> - Options

General	Connection: Set up how Skype connects to the internet
Privacy	Use port 40715 for incoming connections
i Notifications	Automatic provy detection
<b>C</b> alls	Host Port
🗭 IM & SMS	Enable proxy authentication
Advanced	
Advanced settings	Enable uPnP
2 Automatic updates	
≽ Connection	

Uncheck the box that says Use port 80 and 443 as alternatives for incoming connections. Save options and restart Skype.

#### Install Visual C++ Redistributable

WAMP needs Visual C++ Redistributable for Visual Studio 2012 to run. If you don't have it installed on your computer, then you can download and install it from the Microsoft website.

### How to Install WordPress on your Windows Computer Using XAMPP

## Step 1: Download and install XAMPP on your computer

The first step on your way to install WordPress locally is to download and install the XAMPP software. You can download the Windows installer file from Apache Friends. It's a big file, about 110 MB, so it might take a minute or so depending on your connection:

	PP Apache	+ Maria	aDB + F	PHP + Perl
What is XAMPP?		Introduc	tion to XAMPP	_
AMPP is the most penvironment	opular PHP development			<b></b>
AMPP is a completely free, ontaining MariaDB, PHP, ar	easy to install Apache distribution ad Perl. The XAMPP open source	n		
ackage has been set up to se.	be incredibly easy to install and	20	XAN	
	× ×		74	nrr

Once the download finishes, run the file you downloaded to launch the XAMPP installer. If you're running antivirus software, you might get a warning like this:

🖾 Ques	tion	$\times$
?	It seems you have an antivirus running. In some cases, this may slow down or interfere the installation of the software. Please visit the following link to learn more about this.	
	http://apachefriends.org/en/faq-xampp-windows.html#antivirus	
	Continue with installation?	
	Yes No	

Just click **Yes** to continue. Depending on your Windows configuration, you might also get a prompt about User Account Control (UAC). Just continue through that prompt as well. Once you get through all of the prompts, you should see the standard installer screen:

😂 Setup		_		×
	Setup - XAMPP Welcome to the XAMPP Setup Wizard.			
<b>bitnami</b>	< Back	Next >	Can	cel

Just click **Next** to continue.

On the next screen, you can choose which components to install. To install XAMPP and WordPress, you do not need all of the components. In addition to the required components, all you need are:

•	<b>MySQL</b>

•	PHP	MvA	dmin

Sotup	_		×
Setup			^
Select Components			ខា
Select the components you want to install; clear the components you do when you are ready to continue.	o not want to ir	nstall. Click N	lext
Server     Apache     Apache			
MySQL     MySQL     FileZilla FTP Server     Mercury Mail Server			
Tomcat			
□··· □ Pen □·· □ Program Languages			
phpMyAdmin			
Fake Sendmail			
XAMPP Installer < Back	Next >	Car	ncel

Again, this is all that's needed to install WordPress locally. Uncheck everything else and click **Next**.

You can now select which folder to install XAMPP in. I always leave it as the default:

🖾 Setup		-		×
Installation folder				ខា
Please, choose a folder to install XAMPP Select a folder C:\xampp	<u>69</u>			
XAMPP Installer	< Back	Next >	Ca	ncel

On the next screen, you'll get a prompt asking you to install **Bitnami for XAMPP.** You do **not** need this to install XAMPP and WordPress, so just uncheck the box:

🖾 Setup	- 🗆 X
Bitnami for XAMPP	<mark>ເ</mark> ຊ
	Bitnami for XAMPP provides free installers that can install Drupal, Joomlal, WordPress and many other popular open source apps on top of your existing XAMPP installation. <u>https://bitnami.com/xampp</u> Learn more about Bitnami for XAMPP
XAMPP Installer	< Back Next > Cancel

Once you click **Next**, you're ready to run the install:

🖾 Setup	_		×
Ready to Install			83
Setup is now ready to begin installing XAMPP on your computer.			
XAMPP Installer			
< Back	Next >	G	ancel

The install process might take a few minutes:

🖾 Setup	-		×
<b>bitnami</b> for <b>XAMPP</b> Bitnami for XAMPP provides free installers that can in:	stall		
Drupal, Joomla!, WordPress and many other popular apps on top of your existing XAMPP installation.	open so	urce	
Learn More		Î	
Installing			
Unpacking files			
XAMPP Installer < Back N	lext >	Can	cel

Once it finishes, you can launch the control panel to start working with XAMPP:

🖾 Setup	_		×
	Completing the XAMPP Setup Wizard Setup has finished installing XAMPP on your computer. Do you want to start the Control Panel now?		
bitnami			
	< Back Finish	Can	cel

# Step 2: Start the modules and test your server

To install XAMPP and WordPress properly, you'll need to run two modules:

- Apache
- MySQL

You can start both modules from the XAMPP control panel:

XAMPP Control Panel v3.2.2 [Compiled: Nov 12th 2015] -							$\times$		
XAMPP Control Panel v3.2.2							j c	onfig	
Service	Module	PID(s)	Port(s)	Actions				🛞 N	etstat
	Apache			Start	Admin	Config	Logs	- 📰 🤅	Shell
	MySQL		$\rightarrow$	Start	Admin	Config	Logs	Ex Ex	plorer
	FileZilla			Start	Admin	Config	Logs	🚽 🛃 Se	rvices
	Mercury			Start	Admin	Config	Logs	0	Help
	Tomcat			Start	Admin	Config	Logs		Quit
10:49:02 / 10:49:02 / 10:49:02 / 10:49:02 / 10:49:02 / 10:49:02 / 10:49:02 / 10:49:02 /	AM [main] AM [main] AM [main] AM [main] AM [main] AM [main] AM [main]	Checking for All prerequis Initializing M The FileZilla The Mercury The Tomcat Starting Che Control Pane	r prerequisites ites found odules module is disa r module is disa module is disa ck-Timer el Ready	abled abled abled					^

Once you launch them, you should see their status turn to green:

XAMPP Control Panel v3.2.2 [Compiled: Nov 12th 2015] -								×	
XAMPP Control Panel v3.2.2							<i>J</i> c	onfig	
Modules Service	Module	PID(s)	Port(s)	Actions				🛛 🎯 Ne	etstat
	Apache	13700 15384	80, 443	Stop	Admin	Config	Logs	- 📰 S	Shell
	MySQL	4248	3306	Stop	Admin	Config	Logs	Ex Ex	plorer
	FileZilla			Start	Admin	Config	Logs	🚽 🛃 Se	rvices
	Mercury			Start	Admin	Config	Logs	0	Help
	Tomcat			Start	Admin	Config	Logs		Quit
10:49:02 AM [main]       The Mercury module is disabled         10:49:02 AM [main]       The Tomcat module is disabled         10:49:02 AM [main]       Starting Check-Timer         10:49:02 AM [main]       Control Panel Ready         10:51:32 AM [Apache]       Attempting to start Apache app]         10:51:32 AM [Apache]       Status change detected: running         10:51:35 AM [mysql]       Attempting to start MySQL app         10:51:35 AM [mysql]       Status change detected: running								~	

And now you should be able to test that your local server is working by going to <a href="http://localhost/">http://localhost/</a> in your web browser of choice:



If all went well, you now have a functioning XAMPP server on your Windows PC! But now it's time to install XAMPP **and** WordPress. So here's how to get a WordPress site up and running on XAMPP.

## **Step 3: Add the WordPress files**

If you've ever manually installed WordPress, the rest of the process should feel pretty familiar. First, you need to go to wordpress.org and download the latest version of WordPress.

Then, in Windows, navigate to the folder where you installed XAMPP. For me, that's c://xampp. It should be something similar for you. Then, in that folder, find the **htdocs** subfolder:

is PC > Local Disk (C:) > xampp2			
Name	Date modified	Туре	Size
📜 anonymous	2/24/2017 10:46 A	File folder	
📕 apache	2/24/2017 10:46 A	File folder	
📕 cgi-bin	2/24/2017 10:47 A	File folder	
📙 contrib	2/24/2017 10:46 A	File folder	
htdocs	2/24/2017 10:46 A	File folder	
📕 img	2/24/2017 10:46 A	File folder	
📕 install	2/24/2017 10:47 A	File folder	
licenses	2/24/2017 10:46 A	File folder	
📕 locale	2/24/2017 10:46 A	File folder	
📕 mailoutput	2/24/2017 10:46 A	File folder	
📕 mailtodisk	2/24/2017 10:46 A	File folder	
📕 mysql	2/24/2017 10:46 A	File folder	
📕 php	2/24/2017 10:47 A	File folder	
📕 phpMyAdmin	2/24/2017 10:46 A	File folder	
src	2/24/2017 10:46 A	File folder	

In **htdocs**, create a new folder for your test site. This folder name will become the sub-name used to access your site. For example, if you make the folder testsite, you'll access your site by going to http://localhost/testsite.

Once you create the folder, extract the WordPress .zip file you downloaded from wordpress.org into it:

PC > Local Disk (C:) > xampp2 > ht	:docs > testsite			
Name	Date modified	Туре	Size	
📙 wp-admin	2/24/2017 10:59 A	File folder		
📙 wp-content	2/24/2017 11:00 A	File folder		
📙 wp-includes	2/24/2017 11:00 A	File folder		
index	2/24/2017 10:59 A	PHP File	1 KB	
license	2/24/2017 10:59 A	Text Document	20 KB	
💿 readme	2/24/2017 10:59 A	Chrome HTML Do	8 KB	
activate	2/24/2017 10:59 A	PHP File	6 KB	
🤍 wp-blog-header	2/24/2017 10:59 A	PHP File	1 KB	
wp-comments-post	2/24/2017 10:59 A	PHP File	2 KB	
wp-config-sample	2/24/2017 10:59 A	PHP File	3 KB	
🤍 wp-cron	2/24/2017 10:59 A	PHP File	4 KB	
🤍 wp-links-opml	2/24/2017 10:59 A	PHP File	3 KB	
🤍 wp-load	2/24/2017 10:59 A	PHP File	4 KB	
🤍 wp-login	2/24/2017 10:59 A	PHP File	34 KB	
🤍 wp-mail	2/24/2017 10:59 A	PHP File	8 KB	
wp-settings	2/24/2017 10:59 A	PHP File	16 KB	
a) wp-signup	2/24/2017 10:59 A	PHP File	30 KB	
wp-trackback	2/24/2017 10:59 A	PHP File	5 KB	
amirpc	2/24/2017 10:59 A	PHP File	3 KB	

### **Step 4: Create a database for WordPress**

Next, you need to create a MySQL database for your WordPress install. To do that, launch PHPMyAdmin from your XAMPP control panel:

XAMPP Control Panel v3.2.2 [Compiled: Nov 12th 2015] -								
ខា	3 XAMPP Control Panel v3.2.2							
Service	Module PID(s) Port(s) Actions							Netstat
	Apache	13700 15384	80, 443	Stop	Admin	Config	Logs	Shell
	MySQL	4248	3306	Stop	Admin	Config	Logs	Explorer
	FileZilla			Start	Antin	Config	Logs	Services
	Mercury			Start	min	Config	Logs	😡 Help
	Tomcat			Start	Admin	Config	Logs	📃 Quit
10:49:02 AM [main]       The Mercury module is disabled         10:49:02 AM [main]       The Tomcat module is disabled         10:49:02 AM [main]       Starting Check-Timer         10:49:02 AM [main]       Control Panel Ready							^	

Then click on **Databases** at the top:

phpMuAdmin	← 🛱 Server: 127.0.0.1					
2 # 0 B E A	🗈 Databases 📋 SQL 🜗 Status 🗉 User accounts 🚍 Export					
Recent Favorites						
	Ger eral settings					
New						
⊕ information_schema	Server connection collation : utf8mb4_unicode_ci					
🖶 mysql						
🖶 phpmyadmin	Appearance settings					
test						
	Search and the se					
	Theme: pmahomme					
	Font size: 82%					

And enter a name for your database and click **Create**. Your name can be anything – just remember it because you'll need it for the next step:

phpMuAdmin	← 🛱 Server: 127.0.0.1												
a 🗐 🖲 🗊		Databases	📄 s	QL	<b>_</b>	Status		User accou	nts	-	Export	-	Impo
cent Favorites													
- œ													
. Rew	Da	atabase	es										
information_schema													
mysql	🕞 Create database 🛛 🚱												
. performance_schema	testsite Collation Create												
. phpmyadmin	-												
. 🗊 test		Database ⊿	<u> </u>	Со	llation	1	Actio	n					
		information_	schema	u	tf8_ge	neral_ci	E C	heck privilege	es				
		mysql		lat	in1_sw	edish_ci	n C	heck privilege	es				
		performance	_schem	na u	tf8_ge	neral_ci	E C	heck privilege	es				
	_						-						

Unlike installing WordPress on a live web server, when you install XAMPP and WordPress, you don't need to worry about creating a database user.

## Step 5: Install WordPress locally via the onscreen installer

When you visit your test site, you should see the normal WordPress installer. Remember, your test site is just http://localhost/FOLDERNAME:



The only step where this process will differ from a normal install is the database details. When you get to the database details, enter them like this:

- **Database Name =** Name of the database you created in PHPMyAdmin
- Username = "root"
- **Password =** leave blank

Below you should enter y	your database connection details. If yo	ou're not sure about these, contact your host.
Database Name	testsite	The name of the database you want to use with WordPress.
Username	root	Your database username.
Password		Your database password.
Database Host	localhost	You should be able to get this info from your web host, if localhost doesn't work.
Table Prefix	wp_	If you want to run multiple WordPress installations in a single database, change this.
Submit		

Then finish the rest of the WordPress install process like normal.

Once you complete the process, you should see your brand new WordPress install running perfectly on your local host:

