## What is WAMP?

Ok, so we now know what localhost is. But, why do we need a localhost?

WordPress is written using PHP (Hypertext Preprocessor). Just like WordPress, PHP is also open-source and is a widely-used programming and scripting language to create dynamic and interactive websites.

To ensure your WordPress website functions properly, you require a database. The database stores information such as user profiles, blog articles, product details, and everything you see on your site.

The database used is MySQL.

MySQL is a DBMS (Database Management System) that is used by WordPress to store and retrieve all your website information. Again, just like WordPress and PHP, MySQL is open-source.

For the sake of brevity, open-source software is where the source code is made freely available and it may be redistributed and modified to best suit your requirements.

To run PHP and MySQL which is required to run your WordPress website, you require a web server.

Yes, you've guessed it.

To create your local web server on your Windows computer, you will need to install WAMP.



WAMP, or WAMPSERVER, allows you to install WordPress on your computer, act as localhost, and allows you to build and configure your website without requiring a web host.

WAMP is a completely free and easy to install software package that helps you set up a local web server environment to run WordPress on your computer and have it act as though it's on the internet

# Step 1: Download and Install WAMP on Your Local Computer

Visit the <u>WAMP website</u>.



You will notice there are two download versions. 'WAMPSERVER 64 BITS (X64) 3.2.0' and 'WAMPSERVER 32 BITS (X64) 3.2.0'.

How do you know which version to download? The '64 Bits' or the '32 Bits'?

For this, go ahead to **'Control Panel > System and Security > System'** on your computer.



As shown in the above image, you will find the 'System type' information. And as indicated, we will download the 64-bit version.

Download the 'WAMPSERVER 64 BITS (X64) 3.2.0' version.

You may be prompted to key in your details, as shown below.

Prénom :	Nom :
Société :	Email (*) :
Téléphone :	Pays :
Fonction (*) :	
· · · · · · · · · · · · · · · · · · ·	
vous avez des questions, des remarques, des commen	italies /

You could do so or just click on the 'you can download it directly' link.

You will be directed to an external website.

Home / Browse / Development / WWW/HTTP / HTTP Servers / WampServer / Files  WampServer A Windows Web development environment for Apache, MySQL, PHP databases Brought to you by: alterway, herveleclerc, otomatic									
Summary	Files	Reviews	Support	Wiki	Tickets •	News			
Download La wampserver3.2.3	atest Version x64.exe (465.1 MB)	Get Updates				<b></b>			
Name 🖨			Modified 🗢	Size 🔷	Downloads	/Week 🖨			
WampServer 3			2018-12-09		49,57	71 🖬			
WampServer 2			2014-05-01		1,93	33 🗔			
WampServer OutD	ated		2013-06-23		8	35 🗌			
WampServer 2 - Ex	tensions		2009-12-02			68 🗌			

Click on the 'Download Latest Version' button (the green button).

Once the download has completed, double click on the .EXE file.

	Select Setup Language ×
ω	Select the language to use during the installation.
	English v
	OK Cancel

Starting with the language selection, you will be guided through a series of installation steps. These steps are self-explanatory as shown in the series of images below.

U	Setup - Wampserver64 3.2.3 -		×
U	icense Agreement Please read the following important information before continuing.	J	J
	Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.		
	** WampServer	^	
	Creator : Romain Bourdon Maintainer/Upgrade to 2.5 : Herve Lederc Upgrade 2.5 to 3.0.0 : Otomatic (wampserver@otomatic.net) http://forum.wampserver.com/index.php		
	GNU LESSER GENERAL PUBLIC LICENSE Version 3, 29 June 2007		
	Copyright (C) 2007 Free Software Foundation, Inc. < <u>http://fsf.org/</u> > Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.		
	This version of the CNI I Lesser Ceneral Dublic License incorporates	~	
	I accept the agreement		
Wamr	O I do not accept the agreement		
- samp	Next >	Cance	

Setup - Wampserver64 3.2.3	– 🗆 🗙
Select Destination Location Where should Wampserver64 be installed?	ω
Setup will install Wampserver64 into the following folder.	
To continue, click Next. If you would like to select a different folder, click Browse.	
c:\wamp64	Browse
At least 273.4 MB of free disk space is required.	
Wampserver 3.2.3 Install by Inno Setup	
< Back Next >	> Cancel

As indicated above, WAMP will be installed in the default drive and folder, which is 'C:\WAMP64'. If you have downloaded the 32 Bit software, your folder will be 'C:\WAMP32'.

۵	Setup - Wampserver64 3.2.3 -	×
5	elect Components Which components should be installed?	0
	Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue. Note that you have the possibility, after this installation, to add "addons", i.e. other versions of Apache PHP, MySQL and MariaDB.	:,
	Default installation	~
	✓ Wampmanager           ✓ Apache 2.4.46           ✓ PHP 5.6.40         56.1 MB           PHP 7.0.33         59.3 MB           PHP 7.1.33         58.7 MB           PHP 7.2.33         65.1 MB           ✓ PHP 7.3.21         65.9 MB	^
	✓ PHP 7.4.9         67.4 MB           ✓ Maxim DR         200.4 MR	
	MariaDB         200.4 MB           MariaDB         200.4 MB           MariaDB         10.4.13           MariaDB         10.3.23           MariaDB         10.5.4	~
Ulasa	Current selection requires at least 1.94 GB of disk space.	
wamp	< Back Next > C	Cancel

Retain the default values in the window shown above.

Setup - Wampserver64 3.2.3	- 🗆 ×
Select Start Menu Folder Where should Setup place the program's shortcuts?	ω
Setup will create the program's shortcuts in the following Start Menu folder.	
To continue, click Next. If you would like to select a different folder, click Browse.	
Wampserver64	Browse
Wannserver 3 2 3 Install by Iono Setup	
< Back Nex	t > Cancel

۵	Setup - Wampserver64 3.2.3 -	□ ×
R	eady to Install Setup is now ready to begin installing Wampserver64 on your computer.	ω
Wamp	Click Install to continue with the installation, or click Back if you want to review or change any settings Destination location: c:\wamp64 Setup type: Default installation Selected components: Wampmanager Apache 2.4.46 PHP 5.6.40 PHP 7.3.21 PHP 7.4.9 MariaDB MariaDB MariaDB MariaDB MariaDB MariaDB MariaDB MariaDB Setup Server 3.2.3 Install by Inno Setup	Cancel

If you would like to make any changes to your settings, i.e., change the destination folder, or select or remove components, you could do so at this stage by clicking on 'Back'.

If all looks good, click on 'Install'.

ω	Setup - Wampserver64 3.2.3	-	×
In	<b>istalling</b> Please wait while Setup installs Wampserver64 on your computer.		6
	Extracting files c: \wamp64\bin \mariadb \mariadb 10.4.13\bin \mysqldump.exe		
			_
Wamp:	server 3.2.3 Install by Inno Setup		
			Cancel

<b>W</b>	Setup - Wampserver64 3.2.3 – 🗆 🗙
<b>M</b>	Completing the Wampserver64 Setup Wizard
WampServer Version 3.0.0 by Otomatic	application may be launched by selecting the installed shortcuts. Click Finish to exit Setup.
Wampserver	
3.2.3	
	< Back Finish

Upon successful installation, you will find the above window. Click on '**Finish**'.

How do you know if WAMP has been successfully installed?

Well, you will notice the WAMP icon in the systems tray, in the bottom righthand corner of your desktop.



If the WAMPSERVER's icon colour is green, it means your local web server is working fine.

If the colour is red, it means the server isn't running and is offline. You would need to start the WAMPSERVER.

Likewise, if the colour is orange, as shown in the image above, it means the server is partially running, i.e. one of your services may not be running.

And if you faced any issues while installing WAMP, I've listed some of the common installation issues and its solutions towards the end of this article, under troubleshooting.

So, how do you start and stop the services? Click on the WAMPSERVER icon.



Check the various services, such as Apache, PHP, MySQL, to see if they are running. You can choose to 'Start All Services', 'Stop All Services', or even 'Restart All Services'.

Once the icon turns green, enter 'http://localhost' in your browser.

R Homepage ×						
<b>O</b>						
WampServer				Version 3	.1.0 - 64bit english ✔classic ✔	
Server Configu	ration					
Apache Version:	2.4.27 - Documentati	ion				
PHP Version:	5.6.31 - Documentati	ion				
Server Software:	Apache/2.4.27 (Win64)	PHP/5.6.31 - Port defined	for Apache: 80			
Loaded Extensions :	apache2handler     Core     ereg     gd     misap     mysqlnd     pdo_mysql     SimpleXML     standard     xnireader     in	b bcmath ctype ct	ی ل کے الافادش کے وسم کے الافادش کے وہ میں کے الافاد کے میں کے میں کی میں کی میں کی میں کی میں کی میں کی میں میں کی میں کی میں کی میں میں میں میں میں میں میں میں میں می	参 calendar 条 date 条 filter 条 hash 条 ldap 条 prore 条 Reflection 条 SPL 条 xdebug 条 xsl	com_dotnet dom tp conv tp conv bibwnl mys0li PDO session sqlite3 Xml Zend OPcache	
NicOl Version	5 7 10 - Port defined fo	r McOl : 2206 - Docum	ontation			
5032561 H 1/21P1 1/21P1	21/113 - LOLF Gellued 10	I MYSQL, 3300 - DOCUM	entation			

If you find yourself on this page, great! You have successfully installed WAMP on your Windows computer.

Now that we have installed WAMP on our local Windows computer, the next step is to install WordPress.

# Step 2: Download and Install WordPress Onto Your Windows Computer

Download the latest version of WordPress (currently 5.5.3) from <u>WordPress.org</u>.



### Priceless, and also free

Download WordPress and use it on your site.



A 'wordpress-5.5.3.zip' file will be downloaded. Extract the contents of the file.



As shown in the image above, the contents of the file have been extracted to a folder 'wordpress-5.5.3'. If you have downloaded a different version of WordPress, the folder will be named accordingly.

Now, copy the 'wordpress' folder. This folder contains all the files required to create a WordPress website.

Head over to the WAMP folder.

11 I 💽 11 = I	wam	p64			×
File Home Share	View				^ 🕐
Copy Paste	h Move Copy trcut to to to to	I I New item ▼ I Easy access ▼ ew der	rties → Copen → → Edit → History	Select all Select none Invert selectior	1
Clipboard	Organize	New	Open	Select	
🛞 🏵 👻 🕆 🚺 🕨 Th	iis PC → Local Disk (C:) → wamp64	~	🖒 Search war	mp64	Q
🚖 Favorites	Name	Date modified Ty	/pe	Size	^
	🎍 alias	11/6/2020 4:46 AM Fil	le folder		
🔣 Homegroup	🎍 apps	11/6/2020 4:46 AM Fil	le folder		
	🎍 bin	11/6/2020 4:48 AM Fil	le folder		
This PC	🎍 cgi-bin	11/6/2020 4:46 AM Fil	le folder		
Desktop	🎍 lang	11/6/2020 4:46 AM Fil	le folder		
Documents	🎍 logs	11/6/2020 4:46 AM Fil	le folder		
Downloads	🎍 scripts	11/6/2020 4:46 AM Fil	le folder		
Music	퉬 tmp	11/6/2020 4:46 AM Fil	le folder		
Pictures	www	11/6/2020 4:46 AM Fil	le folder		
J Videos	🛃 barimage	3/18/2018 2:45 PM Bit	tmap image	3 KB	
늘 Local Disk (C:)	changelog	8/2/2020 11:39 AM Te	ext Document	9 KB	
👝 Local Disk (D:)	🔜 images_off	12/29/2018 6:46 PM Bit	tmap image	30 KB	
🔮 DVD RW Drive (E:) N	install	9/17/2019 3:46 PM Te	ext Document	5 KB	
	instructions_for_use	9/18/2019 11:49 AM Ad	dobe Acrobat D	380 KB	
🖤 Network	instructions_for_use	11/6/2019 10:22 AM Rid	ch Text Format	1,084 KB	
	licence	11/6/2015 11:00 AM Te	ext Document	8 KB	
25 items 1 item selected	📄 mariadb_mysql	4/15/2020 6:04 PM Te	ext Document	6 KB	•

Under WAMP, you will notice the 'www' folder.

Go ahead and paste the 'wordpress' folder inside 'www'.

1) I 🕞 (j) = I	www – 🗆	×
File Home Sha	are View	^ 🕐
Copy Paste s	path shortcut $V_{tov}$ $V$	
Clipboard	Organize New Open Select	
€ 🦻 ד ↑ 🌗 ו	This PC → Local Disk (C:) → wamp64 → www → v C Search www	P
🔆 Favorites	Name Date modified Type Size	
	\mu wamplangues 11/6/2020 4:46 AM 🛛 File folder	
🝓 Homegroup	\mu wampthemes 11/6/2020 4:46 AM 🛛 File folder	
	wpastra 11/6/2020 5:00 AM File folder	
🌉 This PC	add_vhost.php 6/10/2020 1:09 PM PHP File 24 KB	
膧 Desktop	la favicon 12/31/2010 9:40 AM loon 198 KB	
Documents	index.php 4/20/2020 4:51 PM PHP File 21 KB	
🐌 Downloads	test_sockets.php 9/21/2015 7:30 PM PHP File 1 KB	
🚺 Music	testmysql.php 3/12/2020 12:23 PM PHP File 1 KB	
📄 Pictures		
📄 Videos		
📥 Local Disk (C:)		
👝 Local Disk (D:)		
💿 DVD RW Drive (E:)	N	
🙀 Network		
8 items 1 item selecte	ed I	=

Once you have transferred the folder into 'www', you can rename the folder to that of your choice. Typically, you can name it as the website you are creating.

For example, I've renamed the folder to 'wpastra', as shown in the image above.

Now, to access your WordPress website and to verify if the installation has gone through without any errors, type the URL 'http://localhost/<wordpress-folder>' in the web browser. Where '<wordpress-folder>' is the name of the folder you've entered.

Which in my case will be 'http://localhost/wpastra'.

Upon successful installation, you should reach the following page.

Select the language of your preference and click on continue.

On the following page, as shown below, you will be asked to enter in details of your database.

O localhost/wpastra/wp-admin/setup-config.php?step=0	Q 🕁
Welcome to WordPress. Before getting started, we need some information on the database. You will need to know the following items before proceeding. 1. Database name 2. Database name 3. Database password 4. Database host 5. Table prefix (if you want to run more than one WordPress in a single database) We're going to use this information to create a wp-config.php file. If for any reason this automatic file creation doesn't work, don't worry. All this does is fill in the database information, and save it as wp-config.php. Need more help? We got it. In all likelihood, these items were supplied to you by your Web Host. If you don't have this information, then you will need to contact them before you can continue. If you're all ready	

And how exactly do we get the details of the database?

Well, that is where our final step comes into play.

## Step 3: Creating the MySQL Database

You will now have to access 'phpMyAdmin'. There are two ways to go about this.



The first option is to click on the WAMPSERVER icon and you will notice 'phpMyAdmin'. Click on that. The other option is to type 'http://localhost/phpmyadmin' in the web browser.



#### Welcome to phpMyAdmin

Language		
English	$\checkmark$	
Log in @ Username:		
Password:		×
Server Choice:	MySQL	
		Go

Enter the 'Username' as 'root' and keep the 'Password' blank. Then, click on 'Go'.

You will be directed to the 'phpMyAdmin' dashboard.

phpMyAdmir	n	🗕 📑 Server: 127	.0.0.1						
<u>ሰ ସା</u> 😡 🗊 🕸 ፍ		Databases	📔 SQL	🚯 Status	User accounts	📕 Export	🖶 Import	🤌 Settings	📗 Repli
Recent Favorites	60	General se Se ver conn More setting Appearance Canguage Theme: pr	ttings ection collations e setting English mahomme ~	on: 🕢 utf8n JS	nb4_unicode_ci	~			

On the left-hand side, you will notice several existing database names.

To create a new database, click on the '**Databases**' tab on the top. Enter a '**Database name**' and click on '**Create**'.



For example, I've created a database called 'wpastra'.

Now that the database has been created, head back to the WordPress installation page and click on 'Let's go!'.

Below you should ent	er your database connection	details. If you're not sure about these, contact your host.
Database Name	wpastra	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,

To begin, enter the name of the database you just created under 'Database Name'.

As for the 'Username', enter the same as 'root'. And the 'Password' field can be left empty. Leave the remaining two fields, i.e., 'Database Host' and 'Table Prefix', as the default values. Which are 'localhost' and 'wp\_' respectively.

Once completed, click on 'Submit'.



You should now reach the following page. If you have, well then, your connections to the database are working just fine!

Go ahead and click on 'Run the installation'.

#### Welcome

Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

### Information needed

Please provide the following information. Don't worry, you can always change these settings later.

Site Title	My WP Astra Website			
Username	wpastra			
	Usernames can have only alphanum periods, and the @ symbol.	neric characters, spaces, underscores, hyphens,		
Password	*QJ8dMvwW%4V7@46A9	n Hide		
	Strong			
	Important: You will need this passy location.	word to log in. Please store it in a secure		
Your Email	mysite@wpastra.com			
	Double-check your email address b	efore continuing.		
Search engine visibility	Discourage search engines from indexing this site It is up to search engines to honor this request.			
Install WordPress	←──			

Key in the 'Site Title', the 'Username', the 'Password' and 'Your Email'.

As is shown in the image above, I've keyed in the required fields.

And then, click on 'Install WordPress'.

Success!	
WordPress has bee	en installed. Thank you, and enjoy!
Username	wpastra
Password	Your chosen password.
Log In	

Click on 'Log In' once the installation has been completed successfully.

① localhost/wpastra/wp-login.php		07	☆
	Income of Facel Address		
	Jsername or Email Address		
	wpastra		
F	Password		
	•••••••		
	Remember Me Log In		
L	.ost your password?		
	– Back to My WP Astra Website		

And you will get to see your WordPress login screen.

Enter the username and password you just created.

🚯 🕋 My WP Astra Web	osite 🛡 0 🕂 New			Howdy, wpastra 🖡
② Dashboard	Dashboard			Screen Options 🔻 Help 🔻
Home Updates	Welcome to WordPress!			🕄 Dismiss
🖈 Posts	We've assembled some links to get you	started:		
9j Media	Get Started	Next Steps	More Actions	
Pages	Customics Very City	Write your first blog po	ost Manage widge	ts
Comments	Customize rour site	+ Add an About page	Manage menus	5
🔊 Appearance	or, change your theme completely	Set up your homepage	e 🛛 🕅 Turn comments	s on or off
🖆 Plugins		View your site	😤 Learn more abo	out getting started
👗 Users				
🖋 Tools	Site Health Status	~ ¥ . (	Quick Draft	~ ¥ *
🖬 Settings	No information	n yet T	Title	
Collapse menu	Site health checks will automatically run periodically You can also <u>visit the Site Health screen</u> to gather in	to gather information about your site.	Content	
	At a Glance	~ ~ *	What's on your mind?	
	📌 1 Post	l Page		

Great! You are on the WordPress dashboard. You have installed WordPress on your Windows computer using WAMP.

You can access your website by entering in the URL, which for this example is 'http://localhost/wpastra'.



Go ahead, <u>install your themes</u>, the plugins, test the complete functionalities, and create your WordPress website on your Windows computer. The local installation works the same as a hosted version.

## Troubleshooting Common Issues While Installing WAMP and WordPress

If you have faced any issues while installing WAMP and WordPress, you are not alone. I've faced an issue every time I've installed WAMP on my Windows computer.

For example, there were missing '.DLL' files, namely the 'msvcp120.dll' and the 'msvcp110.dll', while creating this article.

If you have faced the same issue, you could try downloading the '.DLL' files using the following links.

- 1. Download 'msvcp120.dll'
- 2. Download 'msvcp110.dll'

And where do you save the '.DLL' files?

Save the '.DLL' file into your 'C:\Windows\System32\' folder.

WAMP also uses some Microsoft Visual C++ Redistributable Packages to run.

At the end of the WAMP installation, if your software doesn't launch, it might be because you don't have the Microsoft Visual C++ libraries installed on your computer. If so, services such as Apache, PHP, and MySQL won't run.

Use these links to download and install the Microsoft Visual C++ Redistributable Package based on your operating system.

- 1. Install the Microsoft Visual C++ 2010 SP1 Redistributable Package x86 (For Windows 32 BIT)
- 2. <u>Install the Microsoft Visual C++ 2010 SP1 Redistributable</u> <u>Package x64</u> (For Windows 64 BIT)

If WAMP still doesn't work, you may have to try installing the <u>Microsoft</u> <u>Visual C++ Redistributable for Visual Studio 2012 Update 4</u>.

You could also check out the <u>WAMP forums</u> for more help on installing WAMP and WordPress on your computer.