

XAMPP

INTRODUCTION

XAMPP is an open source software developed by **Apache friends**. XAMPP software package contains Apache distributions for Apache server, MariaDB, PHP, and Perl. And it is basically a local host or a local server. This local server works on your own desktop or laptop computer. The use of XAMPP is to test the clients or your website before uploading it to the remote web server. This XAMPP server software gives you the suitable environment for testing MYSQL, PHP, Apache and Perl projects on the local computer.

The full form of XAMPP is X stands for Cross-platform, (A) Apache server, (M) MariaDB, (P) PHP and (P) Perl. The Cross-platform usually means that it can run on any computer with any operating system.

Next MariaDB is the most famous database server and it is developed by MYSQL team. PHP usually provides a space for web development. PHP is a server-side scripting language. And the last Perl is a programming language and is used to develop a web application.

The XAMPP installation process is very simple and fast. Once XAMPP is installed on your local computer it acts as a local server or localhost. You can test the websites before uploading it to the remote web server. This XAMPP server software gives you a suitable environment for testing MYSQL, PHP, Apache and Perl applications on a local computer.

How to Use XAMPP for Development Process?

Once XAMPP installation is completed you can start and stop each module by using **XAMPP Control Panel**. For example, testing PHP applications on your computer, you can start the two modules Apache and MySQL. It will allow PHP programs to run on your computer. This XAMPP software emulates remote server like an environment on your local computer.

As an app developer, you need to test applications as many times as possible to find and fix the bugs. If you are testing in the local environment like XAMPP, it will speed up your development process.

Before XAMPP every time you need to upload files to a remote server for testing purpose. It will be quite difficult to test on the live server and it is visible to your visitors. But whereas in XAMPP you can easily test and make any updates in your localhost. At any number of times, you can update and test in XAMPP. Once completed you can upload this new updated files to the remote server.

What are the Main Tools of XAMPP and its definition?

XAMPP contains tools such as Apache, MYSQL, PHP, and Perl. We will see these tools.



Apache

Apache server is an open source free software which is initially developed by a group of software developers and now it is maintained by Apache software foundation. Apache HTTP is a remote server(computer) if someone request files, images or documents using their browser they will serve those files to clients using HTTP servers. Mainly hosting companies use this application to create a VPS server and shared hosting for their clients.

If you plan to move your testing website to web hosting, we recommend FastComet Cloud Hosting because they provide you the best service compared to other big companies. We have an Exclusive 50% Offer on **FastComet Coupon** for our WPBlogX visitors.

MYSQL

MYSQL is an open source software. It is actually a relational database management system(RDBMS). This SQL stands for Structured Query Language. It is the most popular and best RDBMS used for developing a variety of web-based software applications. With the help of MYSQL, it is possible to organize the information, manage, retrieve and update the data whenever you wish to do.

PHP

The full form of PHP is Hypertext Preprocessor. It is a server-side scripting language that helps you to create dynamic websites. This language is mainly used to build web-based software applications. It is an open source software and works fine with MYSQL. What actually happens is, the PHP code will be executed on the server and at the browser side its HTML code will be displayed.

Perl

Perl is usually said to be the general purpose programming language. This Perl language is interpreted and highly dynamic. Actually, this language is used for web development, GUI development, system administration, etc. Perl is capable of working with HTML, XML and other markup languages.

In the latest version of XAMPP, there are additional tools such as Mail server Mercury, OpenSSL, phpMyAdmin, etc. With the above tools, you can create a full-fledged desktop server.

Installation Process for XAMPP on Windows

XAMPP has been designed to be the easiest way to install and run a development server on your local computer. There are numerous other XAMPP like software's available, but XAMPP is one of the most famous software.

In addition to Apache, MySQL, PHP, and Perl, XAMPP includes other really useful tools such as the phpMyAdmin database administration tool, FileZilla FTP server, Mercury mail server, and JSP server Tomcat. XAMPP can also install an administration site as the home page of the server.

From which you can undertake all manner of administrative tasks, such as checking the server status and security, launch tools like phpMyAdmin and Webalizer analytics.

Steps to install XAMPP On Windows

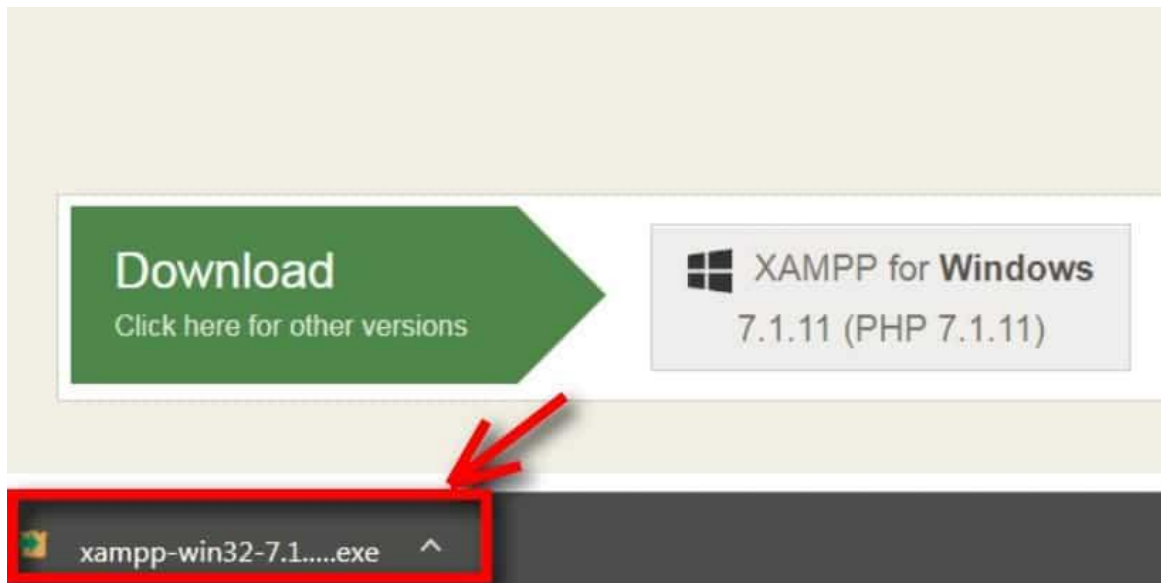
Step 1

In the web browser, You can easily download XAMPP from <http://www.apachefriends.org/>. Since it is an open source you can download it for free.



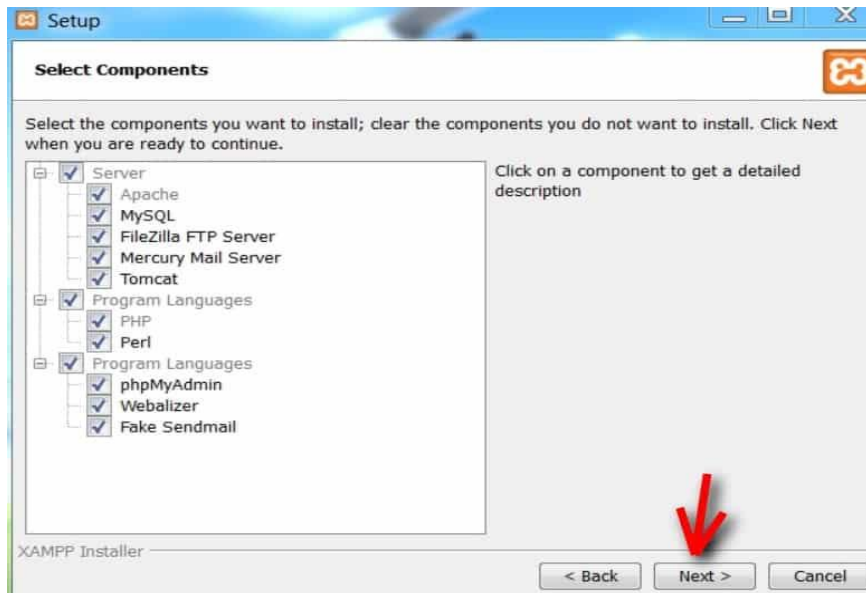
Step 2

Once the software is downloaded, you have to install by double click the .exe file



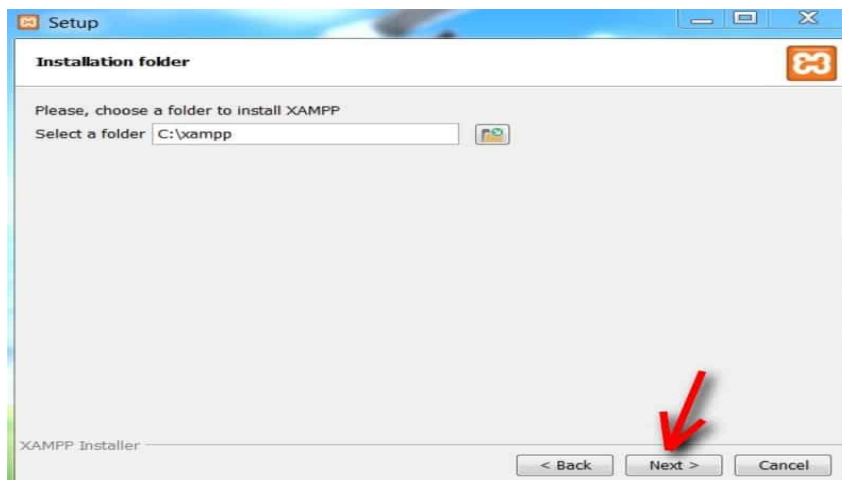
Step 3

Once the file is executed, a setup window appears. In the setup file, select the components that are required. For eg (if you want to install WordPress on XAMPP, the required components are MySQL, Apache, PHPMyAdmin).



Step 4

Next step is to choose the folder where the file is to be located. It is recommended to choose the default "C drive" and then click "Next" button.



Step 5

Clicking on the next your installation process will be started. The setup wizard will unpack and install all the selected components and will save them to their designated directory. The installation process takes a couple of minutes to complete.



Step 6

Once the installation process is completed, click on the "Finish" button.



Step 7

Once done, the XAMPP icon will appear on your desktop or start menu. By double-clicking the XAMPP icon, XAMPP control panel window appears.



XAMPP Control Panel

In the control panel, you will be able to control individual components of your text server. Here you can start or stop individual modules by clicking the buttons below “Actions”. The control panel contains various buttons like config, net stat, shell, explorer, services, help, quit.

Config → It allows you to configure the XAMPP as well as the individual components

Netstat → Helps you to show all the current running process on the local system

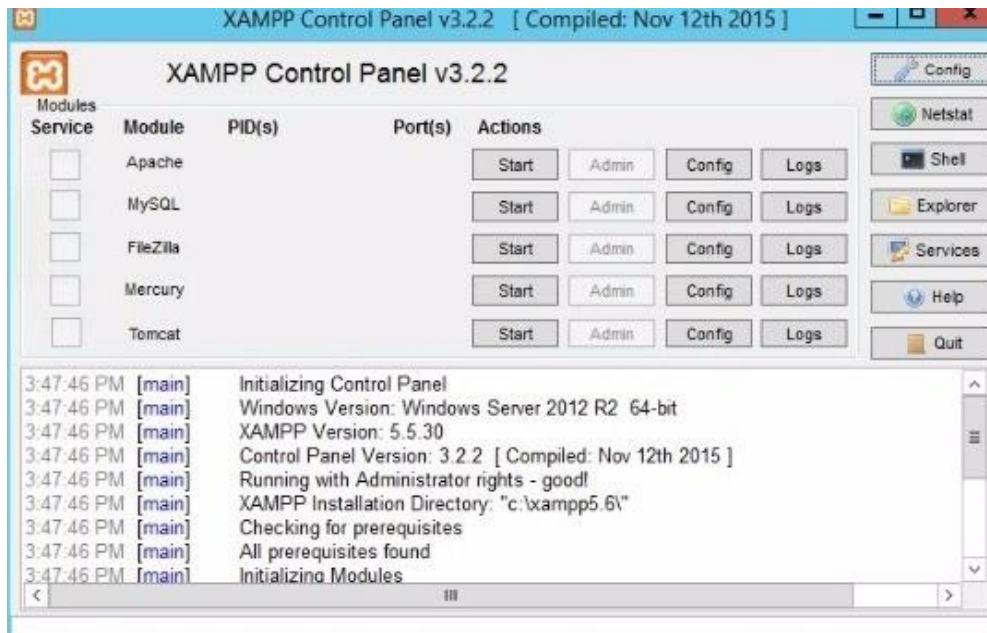
Shell → It allows opening UNIX shell

Explorer → It will open the XAMPP folder in windows explorer

Services → Help to show all the services that are currently running in the back-end

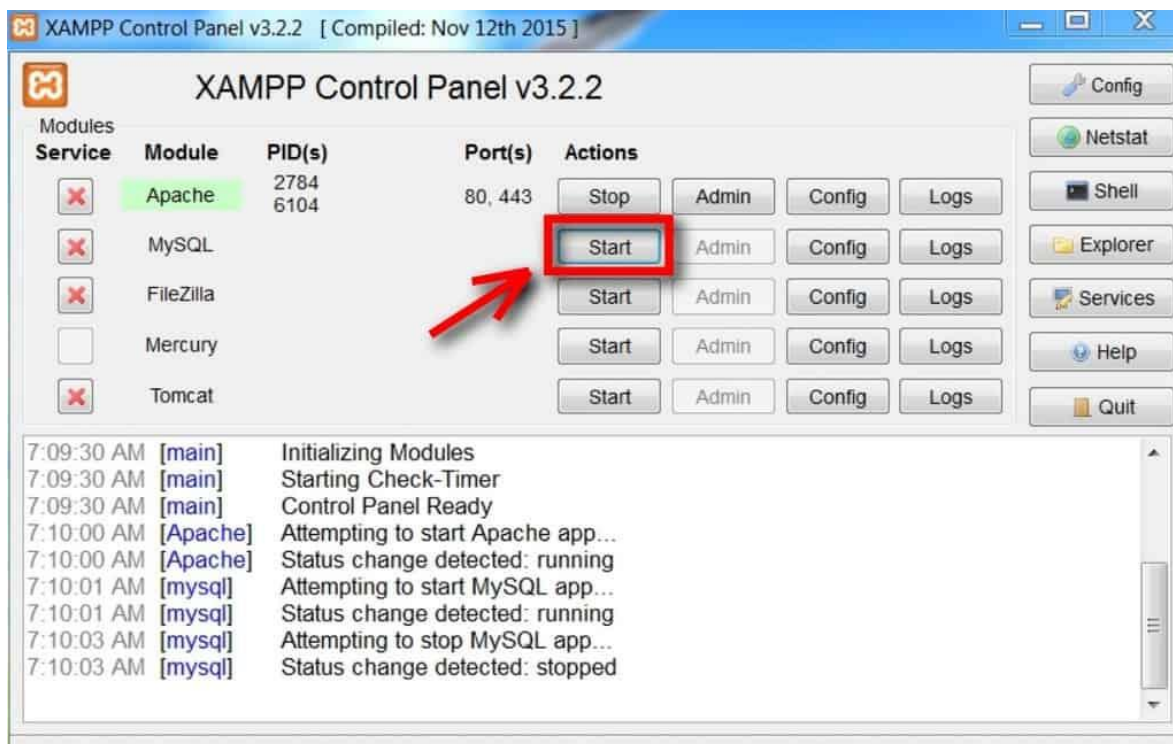
Help → As the name implies it gives you links to the user forums

Quit → By clicking the button the XAMPP control panel will exit



Step 8

In the XAMPP control panel, click the necessary modules that are required for you to work. You can start the modules by clicking the "Start" button under "Actions". You will be able to see the initiated modules highlighted in green. For example, if you are using WordPress platform then the required components are Apache and MYSQL.



Note: If you cannot start a module as a result of the error, then it will be indicated with a red font. They will provide you with a detailed report to identify the cause of an error.

Step 9

Then by clicking the Apache or any “Admin” button in the XAMPP control panel, you will be able to configure each module settings separately.



Step 10

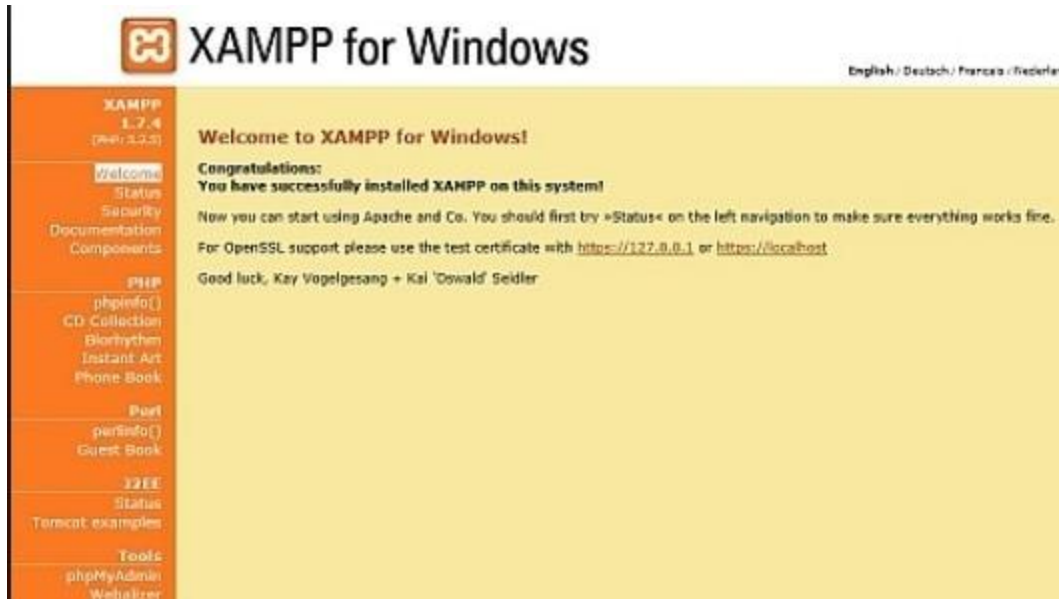
That's it, now in your web browser type localhost and you will be able to see a splash screen of XAMPP. Here you have to choose a language which you understand.



[English](#) / [Deutsch](#) / [Français](#) / [Nederlands](#) / [Polski](#) / [Italiano](#) / [Norsk](#) / [Español](#) / [中文](#) / [Português \(Brasil\)](#) / [日本語](#)

Step 11

By clicking the English button, you will be at the admin page of XAMPP.



Now you have successfully installed XAMPP on your windows

Conclusion:

Overall, XAMPP is a great tool for anyone looking to get a full development server up and running within quick time constraints. The only issue that we can see is that because it is so easy to setup, it doesn't have the security features for this to be used as a production server. Hope this article would have helped you better to know what's XAMPP and how to install XAMPP for your Windows PC. In the next article, we will let you know how to install WordPress on XAMPP.