Configure and Use Apache Tomcat

XAMPP for Windows comes with Apache Tomcat built in, making it easy to get started with Java-based Web applications. This guide will walk you through the process of using Apache Tomcat with XAMPP.

XAMPP for Windows does not include Java, which is a pre-requisite for using Apache Tomcat. If you do not already have Java installed, you will see an error similar to the below when you attempt to start Apache Tomcat through the XAMPP control panel.

2			ompiled: May 7tl rol Panel v3					 Config
Modules -	Module	PID(s)	Port(s)	Actions				Netstat
	Apache	568	80, 443	Stop	Admin	Config	Logs	🔤 Shell
×	MySQL			Start	Admin	Config	Logs	🔁 Explore
×	FileZilla			Start	Admin	Config	Logs	
	Mercury			Start	Admin	Config	Logs	Help
×	Tomcat			Start	Admin	Config	Logs	📃 Quit
	1 [Apache] 1 [Apache]	Initializing Modules he] XAMPP Apache is already running on port 80 he] XAMPP Apache is already running on port 443 Starting Check-Timer						

To correct this, install Java and then attempt to use Apache Tomcat, as below:

1. Browse to https://www.java.com/en/download/ and follow the instructions to download the latest version of the Java Runtime Environment.

Available Operating Systems	Java Downloads for All Operating Systems						
 <u>Windows</u> <u>Mac</u> 	Recommended Version 8 Update 66 Release date November 16, 2015						
 Linux Solaris 	Select the file according to your operating system from the list below to get the latest Java for your computer.						
Help Resources	Remove Older Versions	> <u>What is Java?</u>					
Troubleshoot Java	By downloading Java you acknowledge that you license agreement	have read and accepted the terms of the \underline{end} user					
Java 7	noonoo on oonion						
> Where can I get Java 7?	Windows 🚯 Which should I cho	058?					
» Looking for the JDK?	Windows Online filesize: 671 KB	Instructions After installing Java, you					
	Vindows Offline filesize: 47.87 MB	may need to restart your Instructions browser in order to enable Java in your					
	<u>VVindows Offline (64-bit)</u> filesize: 54.38 MB	Instructions browser.					
If you use 32-bit and 64-bit browsers interchangeably, you will need to install both 32-bit and 64-bit Java in order to have the Java plug-in for both browsers. » <u>FAQ about 64-bit Java for Windows</u>							

2. Follow the on-screen instructions to install Java.



Once installed, you will see a message like the one below:

Java Setup - Complete 📃 🔍						
✓ You have successfully installed Java						
You will be prompted when Java updates are available. Always install updates to get the latest performance and security improvements. <u>More about update settings</u> When you click close, your browser will be opened so you can verify that Java is working.						
Back						

On some versions of Windows, you will not be able to install Java without administrator privileges. You may either need to log in as a user with administrative rights or, if you are using the offline Java installer, you may need to right-click the installer file and select the "Run as administrator" menu option, then enter administrator credentials (if required) to proceed.

3. Start the Apache Tomcat server using the XAMPP control panel.

XAMPP Control Panel v3.2.1 [Compiled: May 7th 2013] XAMPP Control Panel v3.2.1							Config	
Modules · Service	Module	PID(s)	Portís)	.∠. I Actions				Netstat
√	Apache	568	80, 443	Stop	Admin	Config	Logs	🔚 Shell
×	MySQL			Start	Admin	Config	Logs	🔁 Explorer
×	FileZilla			Start	Admin	Config	Logs	😴 Services
	Mercury			Start	Admin	Config	Logs	😟 Help
×	Tomcat	4420	8005, 8009, 8080	Stop	Admin	Config	Logs	📃 Quit
246:38 PM [main] 246:38 PM [main] 246:38 PM [main] 246:38 PM [main] 246:38 PM [main] 246:38 PM [Apache] 246:38 PM [Apache] 246:38 PM [Apache] 246:38 PM [Apache] 246:38 PM [main] 246:38 PM [main] 246:39 PM [Torncat] 246:30 PM								

You should now be able to access Apache Tomcat by browsing to http://localhost:8080/ in your browser's address bar. Here's an example of what you should see:

If you're seeing this, you've successfully installed Tomcat. Congratulations!							
Security Manager	nended Reading: <u>Considerations HOW-TO</u> r <u>Application HOW-TO</u> ng/Session Replication HOW-TO	Server Status Manager App Host Manager					
Developer Quick Start Tomcat Setup Realms & AAA Examples Servlet Specifications First Web Application JDBC DataSources Tomcat Versions							
Managing Tomcat For security, access to the manager webapp is restricted. Users are defined in: ¢CATALINA_BONE/conf/tomcat-users In Tomcat 7.0 access to the	Documentation <u>Tomcat 7.0 Documentation</u> <u>Tomcat 7.0 Configuration</u> <u>Tomcat Wiki</u> Find additional important configuration information in:	Getting Help FAQ and Mailing Lists The following mailing lists are available: announce@formcat.anache.org Important announcements, reference - available the line.					

Apache Tomcat includes two applications, the "manager" application and the "host-manager" application, that simplify management and deployment of Web applications and provide detailed information on server status. These applications can be accessed from the Apache Tomcat welcome page, as highlighted in the image above.

Access to the above applications is blocked by default. To access them, you must configure one or more sets of administrator accounts and then assign the roles "manager-gui" and/or "admin-gui" to these accounts. Accounts with the "manager-gui" role would have access to the "manager" application, and those with the "admin-gui" role would have access to the "host-manager" application.

To configure these accounts, follow the steps below:

1. Edit the *tomcat-users.xml* file in the *tomcat/conf* subdirectory of your XAMPP installation directory (typically *C:\xampp*) and add the line below, before the closing *</tomcat-users>* element:

<user username="admin" password="admin" roles="manager-gui,admin-gui" />

This configures an account with username "admin" and password "admin", with access to both the Apache Tomcat Web applications. Remember to replace the username and password with values specific to your installation.

If you prefer to have a separate account for each application, replace the previous configuration with this example:

<user username="manager" password="manager" roles="manager-gui" /> <user username="admin" password="admin" roles="admin-gui" />

- 2. Save the changes.
- 3. Restart the Apache Tomcat server using the XAMPP control panel.

You should now be able to access the Apache Tomcat Web applications using the configured credentials. Here's an example of the management Web application, which includes controls to deploy new WAR applications.

Tomcat Web Application Manager

Message: OK								
Manager								
List Applications HTML Manager Help Manager Help Server Status								
Applicatio	Applications							
Path	Version	Display Name	Running	Sessions	Commands			
٤	None specified	Welcome to Tomcat	true	Q	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes 30			
/docs	None specified	Tomcat Documentation	true	Q	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes 30			
/examples	None specified	Servlet and JSP Examples	true	Q	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes 30			
<u>/host-</u> manager	None specified	Tomcat Host Manager Application	true	Q	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 30 minutes 30 30			
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes			
Deploy								
Deploy directory or WAR file located on server								
Context Path (required): XML Configuration file URL: WAR or Directory URL: Deploy								
WAR file to deploy								
Select WAR file to upload Browse No file selected. Deploy								