

Setting Up PHP for Selenium

Welcome to tutorial 5, In this tutorial, you'll learn how to set up a PHP environment for Selenium testing. We'll guide you through installing the necessary tools, configuring your system, and running Selenium tests with PHP and further testing on.

0. Prerequisites

Before you begin, please install Firefox installed on your system

1. Setting Up

1.1 Install XAMPP and PHP

- **Download & Install XAMPP**
 - Visit the XAMPP website and download the latest version, which includes PHP and Apache.
 - <https://www.apachefriends.org/download.html>

Download

XAMPP is an easy to install Apache distribution containing MariaDB, PHP, and Perl. Just download and start the installer. It's that easy. Installers created using [InstallBuilder](#).

XAMPP for Windows 8.0.30, 8.1.25 & 8.2.12				
Version	Checksum		Size	
8.0.30 / PHP 8.0.30	What's Included?	md5 sha1	Download (64 bit)	144 Mb
8.1.25 / PHP 8.1.25	What's Included?	md5 sha1	Download (64 bit)	148 Mb
8.2.12 / PHP 8.2.12	What's Included?	md5 sha1	Download (64 bit)	149 Mb

[Requirements](#) [More Downloads >](#)

Documentation/FAQs

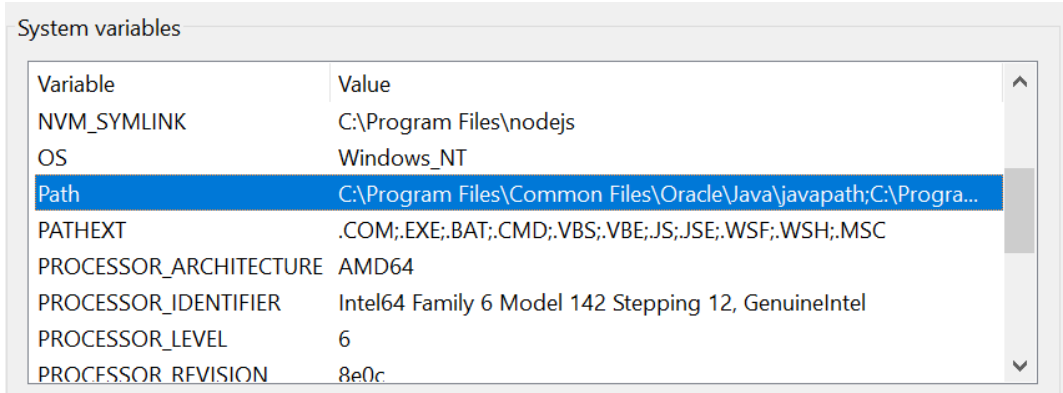
There is no real manual or handbook for XAMPP. We wrote the documentation in the form of FAQs. Have a burning question that's not answered here? Try the [Forums](#) or [Stack Overflow](#).

- [Linux FAQs](#)
- [Windows FAQs](#)
- [OS X FAQs](#)

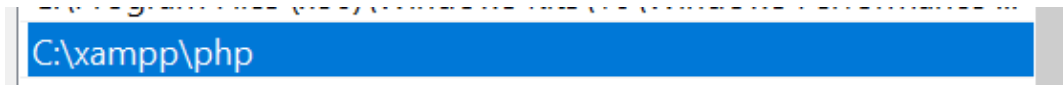
- Run the installer and follow the installation prompts.

1.2 Add PHP to System Path

- **(Windows) Modify System Environment Variables**
 - Navigate to Control Panel → System and Security → System → Advanced system settings.
 - Click on Environment Variables.
 - In the System Variables section, find and select the Path variable, then click Edit.



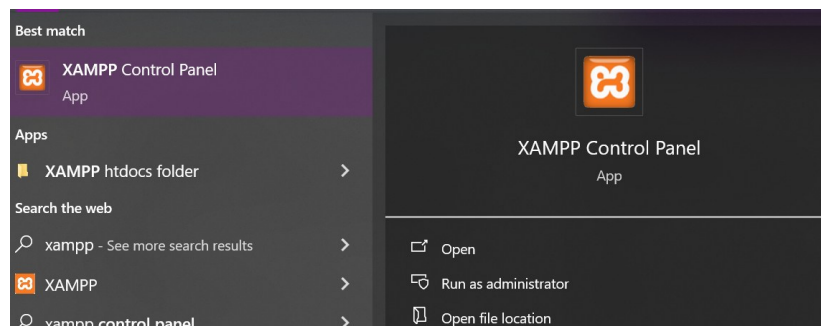
- Add the directory path to your PHP from XAMPP installation (e.g., C:\xampp\php) – check what the specific directory is on your computer
 - Ensure the directory path to your PHP installation is placed higher/at the top of the PATH hierarchy to ensure it is recognized



- Click ok to save changes, then restart your computer
- (For macOS Users): Run the following command based on your shell type to set up the PHP PATH correctly:
 - For zsh users:
 - `echo 'export PATH=/Applications/XAMPP/xamppfiles/bin:$PATH'`
 - `>> ~/.zshrc`
 - `source ~/.zshrc`
 - For bash users:
 - `echo 'export PATH=/Applications/XAMPP/xamppfiles/bin:$PATH'`
 - `>> ~/.bash_profile`
 - `source ~/.bash_profile`

1.3 Start Apache Server

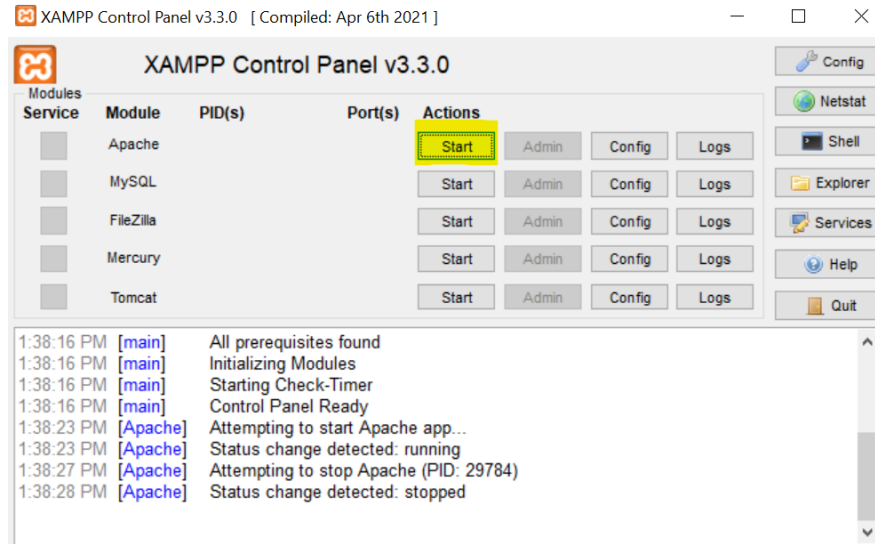
- **Launch Apache**
 - Open the XAMPP Control Panel.



- Click the Start button next to Apache to launch the server.

Developed by: Feyi Adesanya

Version: 1.0 (2025W)



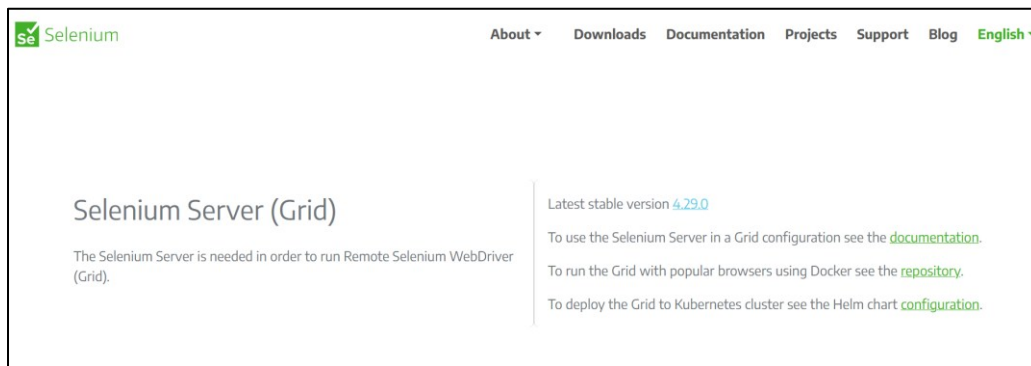
2. Installing Additional Tools

2.1 Install Composer

- **Download Composer**
 - Visit the Composer website, download the installer and follow the installation instructions
 - <https://getcomposer.org/download/>

2.2 Install Selenium Server & GeckoDriver

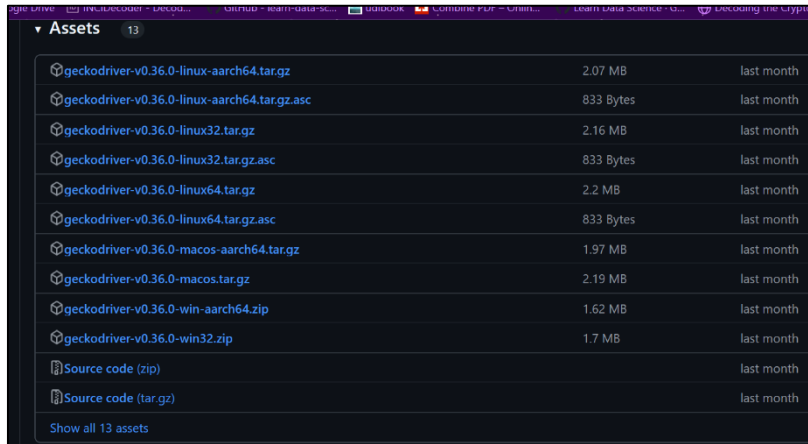
- **Download Files**
 - **Selenium Server:** Download the Selenium Server JAR file from the Selenium website.
 - <https://www.selenium.dev/downloads/>



- **GeckoDriver:** <https://github.com/mozilla/geckodriver/releases>

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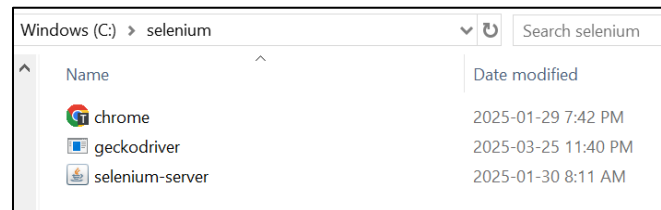


Assets 13		
geckodriver-v0.36.0-linux-aarch64.tar.gz	2.07 MB	last month
geckodriver-v0.36.0-linux-aarch64.tar.gz.asc	833 Bytes	last month
geckodriver-v0.36.0-linux32.tar.gz	2.16 MB	last month
geckodriver-v0.36.0-linux32.tar.gz.asc	833 Bytes	last month
geckodriver-v0.36.0-linux64.tar.gz	2.2 MB	last month
geckodriver-v0.36.0-linux64.tar.gz.asc	833 Bytes	last month
geckodriver-v0.36.0-macos-aarch64.tar.gz	1.97 MB	last month
geckodriver-v0.36.0-macos.tar.gz	2.19 MB	last month
geckodriver-v0.36.0-win-aarch64.zip	1.62 MB	last month
geckodriver-v0.36.0-win32.zip	1.7 MB	last month
Source code (zip)		last month
Source code (tar.gz)		last month
Show all 13 assets		

2.3 Setup Server Files

- **Organize Files**

- Create a directory in the C drive called selenium (Optional if it already exists)
 - C:\selenium
- Move the downloaded selenium-server.jar and geckodriver.exe into the C:\selenium directory.
 - Rename the Selenium Server file to selenium-server.jar

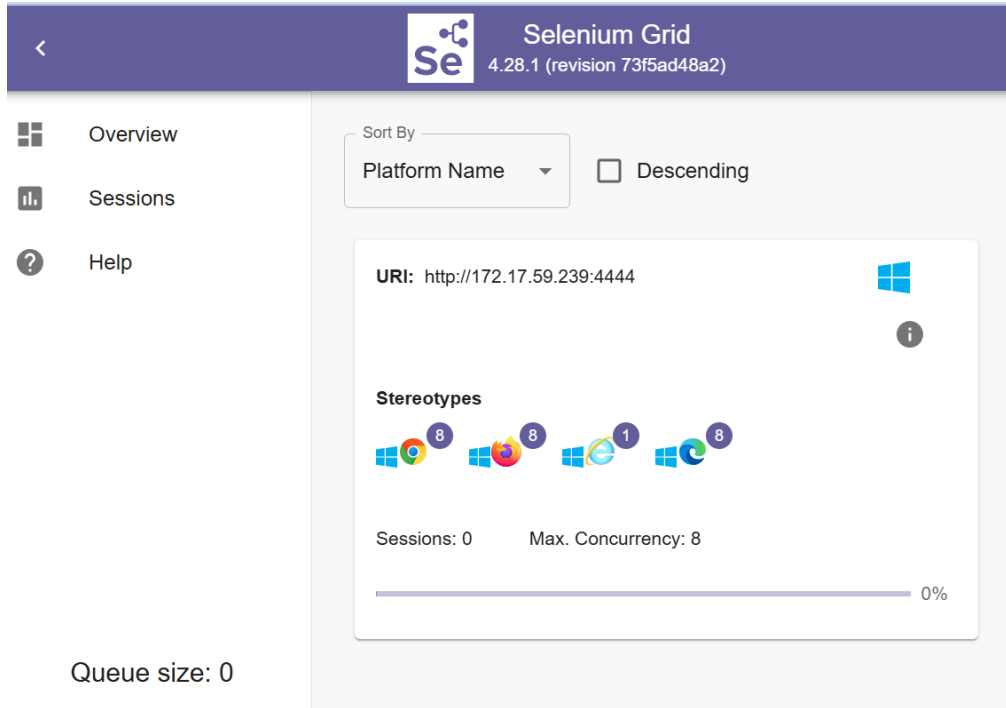


- **Run Selenium Server**

- Open a Command Prompt and navigate to the directory:
 - `cd C:\selenium`
- Start the Selenium Server by running:
 - `java -jar selenium-server.jar standalone`

```
C:\selenium>java -jar selenium-server.jar standalone
Feb 24, 2025 2:05:12 P.M. org.openqa.selenium.remote.tracing.opentelemetry.OpenTelemetryTracer createTracer
INFO: Using OpenTelemetry for tracing
Feb 24, 2025 2:05:14 P.M. org.openqa.selenium.grid.node.config.NodeOptions getSessionFactories
INFO: Detected 8 available processors
Feb 24, 2025 2:05:14 P.M. org.openqa.selenium.grid.node.config.NodeOptions discoverDrivers
INFO: Looking for existing drivers on the PATH.
Feb 24, 2025 2:05:14 P.M. org.openqa.selenium.grid.node.config.NodeOptions discoverDrivers
INFO: Add '--selenium-manager true' to the startup command to setup drivers automatically.
Feb 24, 2025 2:05:16 P.M. org.openqa.selenium.manager.SeleniumManager lambda$runCommand$1
WARNING: Unable to discover proper msedge driver version in offline mode
Feb 24, 2025 2:05:16 P.M. org.openqa.selenium.manager.SeleniumManager lambda$runCommand$1
WARNING: Unable to discover proper geckodriver version in offline mode
Feb 24, 2025 2:05:17 P.M. org.openqa.selenium.manager.SeleniumManager lambda$runCommand$1
WARNING: Unable to discover proper IEDriverServer version in offline mode
Feb 24, 2025 2:05:17 P.M. org.openqa.selenium.grid.node.config.NodeOptions report
INFO: Adding Internet Explorer for {"browserName": "internet explorer", "platformName": "Windows 10"} 1 times
Feb 24, 2025 2:05:17 P.M. org.openqa.selenium.grid.node.config.NodeOptions report
INFO: Adding Edge for {"browserName": "MicrosoftEdge", "platformName": "Windows 10"} 8 times
Feb 24, 2025 2:05:17 P.M. org.openqa.selenium.grid.node.config.NodeOptions report
INFO: Adding Chrome for {"browserName": "chrome", "platformName": "Windows 10"} 8 times
Feb 24, 2025 2:05:17 P.M. org.openqa.selenium.grid.node.config.NodeOptions report
INFO: Adding Firefox for {"browserName": "firefox", "platformName": "Windows 10"} 8 times
Feb 24, 2025 2:05:17 P.M. org.openqa.selenium.grid.node.config.NodeOptions report
```

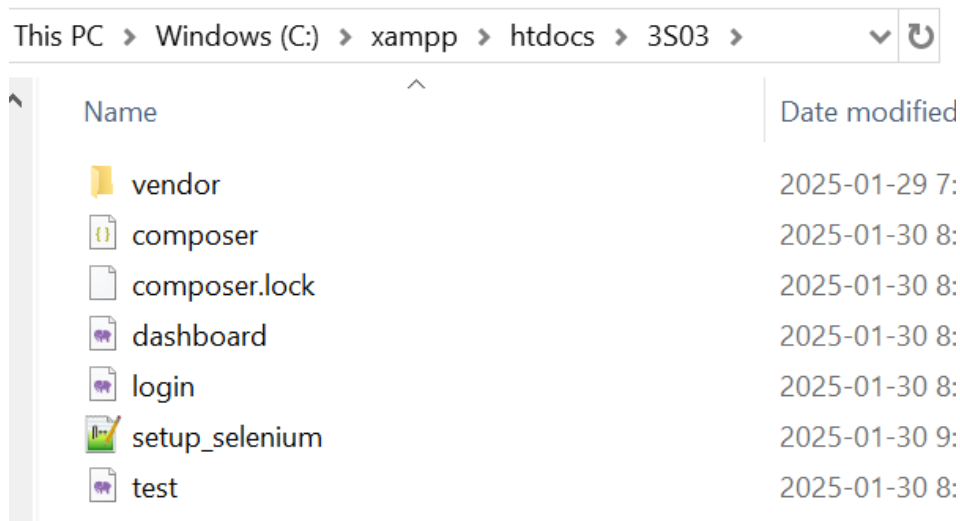
- To verify the server is running, open your browser and navigate to:
 - <http://localhost:4444/ui/>



3. Setting Up Your PHP Project in XAMPP

3.1 Create Your Project Folder

- Download the project files from the GitHub repo in Tutorial 5
- Place your PHP project folder within the XAMPP htdocs directory (C:\xampp\htdocs).



3.2 Install WebDriver

- Open a Command Prompt, navigate to your project directory, and run the following Composer command to install the PHP WebDriver:

```
o cd C:\xampp\htdocs\3S03
```

```
o composer require php-webdriver/webdriver
```

4. Running Test

4.1 Running Test

- Navigate to the folder called test and run the following command to activate a python test on the website
 - o `pytest test_suite.py -s`
 - o PS: ensure self.driver is set to Firefox

```
def setup_method(self):  
    self.driver = webdriver.Firefox()  
    self.driver.maximize_window()
```

4.2. Recording and Exporting Test

- You can record test through the Selenium IDE extension in Firefox
- Try opening an existing project and running the test located in test/selenium_ide_test

