Setting up of Selenium WebDriver

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## Java SDK installation and Configure Environment Variables

### Java SDK installation

* Go to Oracle.com (<https://www.oracle.com/java/technologies/javase-downloads.html>)
* Download JDK file of Java 8 Latest version and install in your system (**Note**: you will need to have Java 8 installed to use Selenium 3)
* Once installation is complete, perform below steps to verify the installation is successful.

1. Navigate Java folder in program files and verify that it should have jdk and jre folders
2. Open command prompt and type “java -version”. It should the version of java installed in the system

### Configure Environment Variables

* In search, search for and then select “System”
* Click on the Advanced System settings link
* Click on Environment variables
* Select Path and click on Edit button under System Variables and specify Java bin path (C:\Program Files\Java\jdk1.8.0\_251\bin) as Variable value and click on Ok
* Select New button under System variables and Specify JAVA\_HOME as Variable name and Java path (C:\Program Files\Java\jdk1.8.0\_251) as Variable value and Click on Ok button
* Click on Ok button
* Click on Ok button

## Download and configure Eclipse IDE

* Go to <https://www.eclipse.org/downloads/>
* Click on Download Packages
* It will redirect you to the "Download Packages" section. Scroll down and click on "Eclipse IDE for Java Developers".
* Navigate Download Links section and click on “Windows 64-bit” (You can select other options to download based on your operating system)
* It will redirect you to the Download screen. Click on the “Download” button.
* Downloaded file would be in a zipped format. Unpack the zipped folder in your convenient directory.
* Double click on “eclipse.exe” file
* To configure the workspace, provide a convenient directory where you want to keep your Selenium scripts and click on the Launch button.
* It will launch the default interface of Eclipse IDE.

## Download Browser Drivers

* 1. Download Google Chrome Driver
* Go to Downloads of Selenium official website (<https://www.selenium.dev/downloads/>)
* Scroll down and Locate Browsers.
* Expand Browsers and click on the documentation link of Chrome.
* It will navigate to the ChromeDriver screen.
* Click on ChromeDriver link of Current stable release
* It will navigate to Index page
* Click on chromedriver\_win32.zip and download will start automatically (Note: Zip file for Windows 64 is not available. Therefore, the zip file for Windows 32 should be downloaded)
* Downloaded file would be in a zipped format. Unpack the zipped folder in your convenient directory.
  1. Download Firefox Driver
* Go to Downloads of Selenium official website (<https://www.selenium.dev/downloads/>)
* Scroll down and Locate Browsers.
* Expand Browsers and click on the documentation link of Firefox.
* It will navigate to the Supported platforms screen.
* Click on geckodriver releases, and it will redirect to geckodriver screen
* Scroll down and locate Assets of Latest version and click on geckodriver-v.26.0-win64.zip
* Download will start automatically
* Downloaded file would be in a zipped format. Unpack the zipped folder in your convenient directory.

## Download Selenium Drivers

## Download Selenium Server (Grid)

* Go to Downloads of Selenium official website (<https://www.selenium.dev/downloads/>)
* Locate Selenium Grid and Click on Download Latest Stable version
* Move Downloaded file to your convenient directory

## Download Selenium WebDriver and Java client drivers

* Go to Downloads of Selenium official website (<https://www.selenium.dev/downloads/>)
* Scroll down and Locate Selenium Client & WebDriver Language Bindings
* Click on “Download” link of Java Client Driver
* Downloaded file would be in a zipped format. Unpack the zipped folder in your convenient directory.

## Configure Selenium WebDrivers in Eclipse IDE

* Launch Eclipse IDE
* Create a new Java Project from **File -> New ->Java Project**
* Provide Project name as “Demo\_Test” and click on the “Finish” button.
* It will create a new Java project with the following directories.

Demo\_Test

JRE System Library [JavaSE- 1.8]

Src

* Right-click on the “Src” folder and create a new Class file from **New-> Class.**
* Provide Class name as “FirstTest” and click on the “Finish” button.
* Right-click on the “Demo\_Test” folder and select Properties. It will launch the properties window for our “Demo\_Test” Test Suite.
* Click on the “Java Build Path” option from the left-hand side panel.
* Select the “Libraries” tab and click on the “Add External JARs…” button.
* Navigate to the directory where you have downloaded the Selenium Jar files, Select the respective jars under Selenium Java folder and click on the “Open” button
* Repeat the same steps for the jars which are present under the “libs” folder.
* Open “libs” folder, select all respective jar files and, click on the “Open” button.
* Repeat the same steps for the Selenium Server (Grid)
* Select Server (Grid) jar and click on the “Open button”.
* Once you get all the Selenium jar files in your Libraries tab, Click on Apply and Close button.
* All jar files should display under “Reference Libraries”