

# Eclipse IDE

The [Eclipse IDE](#) Integrated Development Environment is open source and provides an excellent environment to develop web applications. I migrated the LAMP server from XAMPP to WSL (Windows Subsystem for Linux) with the arrival of Windows 10. See [here](#) for XAMPP related instructions.

Application	Version
Eclipse for PHP Developers	2024-03
OS	Debian 12.5
Apache	2.4.59
PHP	8.3.7
MariaDB	10.11.6 <sup>1</sup>

<sup>1</sup>[MariaDB 10.11 versus MySQL 8.0](#)

## WSL Settings

1. To change the default setting of WSL (WSL1/WSL2) to allow file permissions on mounted Windows drives add the file `wsl.conf` with the following content to `/etc` in your linux distro:

```
[automount]
options="metadata,umask=22,fmask=11"
```

2. Stop wsl from the Windows command line:

```
wsl --shutdown [OR] wsl -t NAME
```

3. Start wsl from the Windows command line:

```
wsl [OR] wsl --distribution NAME
```

4. Check wsl instances from the Windows command line:

```
wsl -l -v
```

## Install eclipse on WSL

### LAMP with Xdebug

- Follow [LAMP on Debian 12](#)

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## PHP

- Make sure `display_errors` is set to ON in apache's `php.ini` file and not overridden in the apache `VirtualHost` file

## Java

Eclipse requires Java to run, so install this first.

- Install Java Runtime Environment [32 Bit Version](#) or [64 Bit Version](#)
- If you have recently installed Java 8 and uninstalled older versions, install [Java SE Development Kit 8](#) and retry.
- If you get a [Java was started but returned exit code=13](#) error, you most likely installed the wrong Java version. Try re-installing Java with the 64-bit version, or vice versa.

## Eclipse

- Install [Eclipse for PHP Developers](#)
- Choose `x:\` as installation path, where "x" can be any drive letter available to your system, also a portable one.
- [How do I increase the heap size available to Eclipse?](#)

## JavaScript

### Links

- [JavaScript Editor Plugin for Eclipse](#)
- [Download Node.js](#)
- [How To Run / Debug Node.js Application With Eclipse](#)

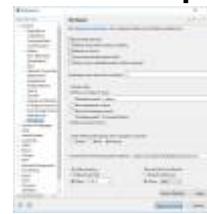
## TypeScript

Install the [TypeScript](#) IDE for Eclipse.

1. Install required software: [Java 7](#), [Eclipse Kepler 4.3](#) or higher, [Node.js](#).
2. In Eclipse go to **Help → Install New Software...**
3. Provide the installation location <http://axmor.bitbucket.org/typescs/stable/update-site/>
4. Mark the plugin version you would like to install then press **Next...**
5. On Install Details press **Next...**
6. Review and confirm the plugin to install.
7. Restart Eclipse.

## Settings

1. Go to **Window → Preferences → General** and enable “Show heap status”.
2. Go to **Window → Preferences → General → Workspace** and modify the Workspace settings.



3. Go to **Window → Preferences → General → Web browser** and set the desired browser for browser output.



4. Go to **Window → Preferences → PHP → Servers** and enter the web server settings.



5. Go to **Window → Preferences → PHP → Validation** and set the PHP version.



6. Go to **Window → Preferences → PHP → Debug → Debuggers** and check the XDebug settings. They must comply with the settings in the php.ini file. Set “Accept remote session (JIT)” to *off* if you don't want the debugger to automatically start when opening any URL on localhost.



7. There are three places where the “Break on first line” configuration can be set:
  - **Window → Preferences → PHP → Debug**
  - **Project → Properties → PHP → Debug**
  - **Run → Debug Configurations → PHP Web Application → <Your configuration> → Debugger**
8. Add or Edit **Debug Configurations**.... If you pointed the DocumentRoot to your workspace, then you can leave the URL on “Auto Generate”, otherwise you must modify the URL.



9. **Window → Preferences → PHP → Code Style → Formatter**. Select “PHP Conventions” as active profile.



10. **Window → Preferences → General → Editors → Text Editors**. Uncheck “Use find/replace overlay” (see [Eclipse 2024-09 Is there a way to get the old Find/Replace window back?](#))
11. If you have existing projects

- either select the project directory as workspace when first starting up the new eclipse, or
- delete the workspace directories and files (filenames start with ".") , then import the project directories with **File -> Import -> General -> Existing Projects into Workspace**

## Links

- [Adding existing project folders to the project explorer in eclipse](#)
- [Guide for installing Owncloud 9 to Synology NAS running DSM 6](#)
- [Install Owncloud 10 on DSM 6.1](#)
- [Setting Up a Programming Environment via Windows 10 Bash](#)
- [eclipse stuck when building workspace](#)

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