

# 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](#)

## LAMP with Xdebug

- Follow [LAMP on Debian 12](#)
- Review your php.ini:

```
output_buffering=off
short_open_tag = 0n
max_execution_time=120
max_input_time=150
max_input_vars = 2000
memory_limit = 512M
error_reporting=E_ALL & ~E_DEPRECATED & ~E_STRICT
display_errors=0n
post_max_size = 32M
sys_temp_dir = "/tmp"
upload_tmp_dir = "/tmp"
upload_max_filesize=128M
date.timezone=Asia/Bangkok
```

## WSL (Windows Subsystem for Linux)

### WSL1

- WSL1 runs networking in bridged mode
- You do not need to set `xdebug.client_host` (Xdebug2: `xdebug.remote_host`) and can keep

### WSL2

- WSL2 runs networking in NAT or mirrored mode
- WSL2: run the following command in PowerShell:

```
New-NetFirewallRule -DisplayName "xdebug" -InterfaceAlias "vEthernet  
(WSL (Hyper-V firewall))" -Direction Inbound -Protocol TCP -LocalPort  
9003 -Action Allow
```

- Check with:

```
Get-NetFirewallRule -DisplayName "xdebug"
```

- Check logfile with `tail -f /path/to/log/xdebug.log`
- [How to forward WSL2 port to Windows port and vice versa](#)

## Eclipse IDE

### 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?](#)

### XDebug for PHP 7.2

To activate the debugger, you need to add the following lines to the bottom of `x:/xampp/php/php.ini`:

```
[XDebug]  
zend_extension = "C:\xampp\php\ext\php_xdebug-2.6.1-7.2-vc15.dll" ;  
IMPORTANT: Windows does not find the dll if the drive letter is missing!  
xdebug.remote_autostart = 1  
xdebug.profiler_append = 0  
xdebug.profiler_enable = 0  
xdebug.profiler_enable_trigger = 0  
xdebug.profiler_output_dir = "\xampp\tmp"  
;xdebug.profiler_output_name = "cachegrind.out.%t-%s"  
xdebug.remote_enable = 1
```

```
xdebug.remote_handler = "dbgp"  
xdebug.remote_host = "127.0.0.1"  
xdebug.remote_log = "\xampp\tmp\xdebug.txt"  
xdebug.remote_port = 9000  
xdebug.trace_output_dir = "\xampp\tmp"  
xdebug.remote_cookie_expire_time = 36000
```

- Other options can be left at default values. Check the settings have been recognized by checking phpinfo.
- XAMPP does not contain the correct php\_xdebug.dll, download it from [here](#) and put it into folder x:/xampp/php/ext.
- Make sure you have Visual C++ 2017 installed.
- Download and install: [Installing Xdebug for XAMPP with PHP 7.x](#) and [The latest supported Visual C++ downloads](#)
- Check phpinfo: [Tailored Installation Instructions](#)

## XDebug for PHP 5.6

To activate the debugger, you need to add the following lines to the bottom of x:/xampp/php/php.ini:

```
[Xdebug]  
zend_extension=H:\xampp\php\ext\php_xdebug.dll  
xdebug.remote_enable = 1  
xdebug.remote_port = 9000  
xdebug.trace_output_dir = "\xampp\tmp"
```

Other options can be left at default values. Check the settings have been recognized by checking phpinfo. xampp comes with the correct php\_xdebug.dll file already located in x:/xampp/php/ext.

### Links

- [Debugging using XDebug](#)
- [XDebug Guide](#)
- [XDEBUG EXTENSION FOR PHP - DOCUMENTATION](#)
- [Xdebug Support: Tailored Installation Instructions](#)

## 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/typecs/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. 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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