

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 ¹

¹[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`)
- Will work with default configuration settings

WSL2

- WSL2 runs networking in NAT or mirrored mode
- To enable mirrored mode, save the following content as file `.wslconfig` into folder `C:\Users\`

```
[wsl2]
networkingMode=mirrored
```

- The following instructions apply to the default NAT 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`

Links

- [How to forward WSL2 port to Windows port and vice versa](#)
- [Upgrading from Xdebug 2 to 3](#)

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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