

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](#)

Apache

Modify `x:\xampp\apache\conf\httpd.conf`. The best way to integrate with eclipse is to point the DocumentRoot to your project directory:

```
DocumentRoot "x:/joomla/htdocs"  
<Directory "x:/joomla/htdocs">  
    Options Indexes FollowSymLinks Includes ExecCGI  
    AllowOverride All  
    Require all granted  
</Directory>
```

Alternatively, you can keep the default DocumentRoot and add an alias to your project directory:

```
<Directory "x:/joomla/htdocs">  
    Options Indexes FollowSymLinks Includes ExecCGI  
    AllowOverride All  
    Require all granted  
</Directory>  
<IfModule alias_module>  
    ScriptAlias /cgi-bin/ "x:/xampp/cgi-bin/"  
    Alias /joomla "x:/joomla/htdocs/"  
</IfModule>
```

To enable SSL, you need to set the DocumentRoot in `C:\xampp\apache\conf\extra\httpd-ssl.conf`

```
DocumentRoot "x:/joomla/htdocs"
```

PHP

php.ini

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
```

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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:
 - o Window → Preferences → PHP → Debug
 - o Project → Properties → PHP → Debug
 - o 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
 - o either select the project directory as workspace when first starting up the new eclipse, or
 - o 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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