Eclipse IDE

The Eclipse IDE Integrated Development Environment is open source and provides an excellent environment to develop web applications. This guide provides all necessary steps to setup and get it running, and was modified for installation of the following versions:

XAMPP	5.6.32	7.2.14
Eclipse for PHP Developers	Oxygen 1a (4.7.1a)	
PHP	5.6.32	7.2.14
MariaDB	10.1.28	10.1.36
MySQL	(5.6.32)	

- MariaDB versus MySQL - Compatibility

XAMPP

Installation

- Install XAMPP packages on a Linux client through the packet manager or download location.
- Install XAMPP on a Windows client. Keep all path definitions relative, e.g. without the drive letter, except the reference to the xdebug dll. Make sure xampp is installed to a root directory, e.g. X:\xampp. “X” can be any drive letter available to your system, also a portable one. Besides the reference to the xdebug dll, the installation remains portable.
- Install XAMPP Portable on a Windows client to integrate into the portable apps environment.

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

1. Modify x:\xampp\php\php.ini:

```
output_buffering=off
short_open_tag = On
max_execution_time=120
max_input_time=150
memory_limit=256M
error_reporting=E_ALL & ~E_DEPRECATED & ~E_STRICT
display_errors=On
post_max_size=16M
upload_max_filesize=128M
date.timezone=Asia/Bangkok
;extension=php_imap.dll
;extension=php_pdo_odbc.dll
```

2. Download phpMyAdmin latest version and replace the folder in /xampp
3. If your htdocs directory is on a different drive than the xampp installation, then you need to either add the drive to “session.save_path” in php.ini, or create an equivalent folder path on the drive where your htdocs folder resides.

```
session.save_path = "C:\xampp\tmp"
```

MariaDB / MySQL

1. Create user to connect with in your application. Give him sufficient access privileges.
2. If you have existing projects, copy the database directories and files to x:/xampp/mysql/data.
3. Create access for your user for host '%' and 'localhost' (2 entries) with the necessary privileges.
4. Default options are read from the following files in the given order:

```
C:\Windows\my.ini C:\Windows\my.cnf C:\my.ini C:\my.cnf
C:\xampp\mysql\my.ini C:\xampp\mysql\my.cnf C:\xampp\mysql\bin\my.ini
C:\xampp\mysql\bin\my.cnf
```

Links

- Cannot log in with created user in mysql
- Authentication Plugin - Unix Socket
- MariaDB Installed Without Password Prompts For Root

- Configuring MariaDB for Optimal Performance
- How do I check my InnoDB settings?
- Guide to configure SSL in XAMPP

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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