

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](#)

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 IDE on WSL2

From the next chapter onwards this guide explains how to use Eclipse IDE under Windows. Installing Eclipse within Debian and running it from Windows through an X-Server has the huge advantage that the file permissions are maintained properly. This chapter is taken from [Run Eclipse in WSL2](#) with changes to adapt to my particular environment, specially that I run WSL2 in mirrored networking mode. To do that, create file `C:\Users\<user>\.wslconfig` with the following content:

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

Setup

Access WSL2 using putty Run Eclipse on WSL2 Ubuntu, displaying the Eclipse UI on VcXsrv running on Windows Connecting to VcXsrv directly from WSL2 Using SSH X11 forwarding, with network connection initiated from Windows to WSL2 Ubuntu, which is particularly useful on company laptops that refuse all incoming network connections on Windows. Prerequisites:

WSL2 up and running Putty, Plink & PuttyGen installed on Windows WSL2 Ubuntu: Install & configure OpenSSH

```
sudo apt install openssh-server
```

Edit /etc/ssh/sshd_config:

```
X11Forwarding yes
X11DisplayOffset 10
X11UseLocalhost no
```

```
sudo ssh-keygen -A
```

```
sudo service ssh start
```

Auto-start SSH daemon:

WSL2 Ubuntu: mkdir -p ~/bin ; echo "sudo service ssh start" » ~/bin/startup.sh Windows: Create scheduled task that runs on user logon, running C:\Windows\System32\bash.exe with arguments /home/<user>/bin/startup.sh Windows: Configure SSH public key authentication using PuttyGen:

See https://www.puttygen.com/#How_to_use_PuTTYgen for general instructions Run PuttyGen Generate new key pair, or convert existing key pair Save private key to ppk file; this will be used later when connecting to WSL2 Ubuntu using Putty or Plink Add the SSH public key to ~/.ssh/authorized_keys on WSL2 Ubuntu Windows: Create putty profile to connect to WSL2 Ubuntu:

Session Host Name: localhost Port: 22 (or whatever OpenSSH port you configured on WSL2 Ubuntu) Connection → Data: Auto-login username: <your user name> Connection → SSH → Auth: Private key file for authentication: <key file generated by PuttyGen in step #2> Connection → SSH → X11: Enable X11 forwarding (if you want to start X11 programs) X display location: 127.0.0.1:0.0 (this should match whatever DISPLAY value is shown in VcXsrv logs) Windows: Install & configure VcXsrv:

Download & install <https://sourceforge.net/projects/vcxsrv/> Copy config.xlaunch as shown below to the Startup folder (Win+R: shell:startup) Launch config.xlaunch to start the X Server manually for now WSL2 Ubuntu: Install Eclipse & prerequisites:

sudo apt-get install openjdk-11-jdk sudo apt-get install libgtk-3-0 Download and unpack Eclipse for Linux to ~/eclipse Windows: Eclipse shortcut using SSH X11 tunnel:

Manually try starting Eclipse from Windows by running the following command: plink.exe -batch -X -i <path to .ppk from step #2> <Ubuntu username>@localhost ~/eclipse/eclipse Copy silent.vbs and plink-silent.cmd (see attached files) to the directory where Plink.exe is installed Create a new shortcut that runs the following command: C:\Windows\System32\cmd.exe /c "C:\<path to plink>\plink-silent.cmd -batch -X -i <path to .ppk from step #2> <Ubuntu username>@localhost ~/eclipse/eclipse" Double-click the shortcut; if all is well you should see the Eclipse UI after a couple

of seconds Windows: Eclipse shortcut using direct XServer connection:

Add the following lines to `~/.profile` on WSL2 Ubuntu (create file if it doesn't yet exist):
export DISPLAY=:0
export LIBGL_ALWAYS_INDIRECT=1
Note that having these lines in `.bashrc` won't work as `.bashrc` is only loaded for interactive shells
Create a new shortcut that runs the following command:
`C:\Windows\System32\wsl.exe -u <WSL2 user> - bash -lc 'nohup ~.eclipse/eclipse' ^& sleep 1`

LAMP with Xdebug

- Follow [LAMP on Debian 12](#)

Eclipse IDE

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/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

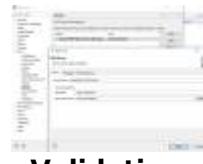
1. Go to **Window → Preferences → General** and enable “Show heap status”.
2. Go to **Window → Preferences → General → Workspace** and modify the Workspace settings.



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. **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

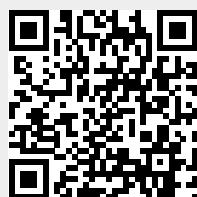
- either select the project directory as workspace when first starting up the new eclipse, or
- delete the workspace directories and files (filenames start with “.”), then import the project directories with **File -> Import -> General -> Existing Projects into Workspace**

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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