

Install and start first Laravel project in WSL (Windows subsystem for Linux)

• 1 Update your Ubuntu system first

Warning! Upgrade Ubuntu system usually takes no longer than 30 mins. Make sure you don't interrupt once the upgrade is running or else you risk ruining the WSL and will have to reinstall it with IT's help.

```
sudo apt-get update
sudo apt-get dist-upgrade
```

- How to check current version of Ubuntu

```
lsb_release -a
```

• 2 Install PHP7.3

- Add Ondrej/php which has PHP 7.3 package and other required PHP extensions.

```
sudo add-apt-repository ppa:ondrej/php
sudo apt-get update
```

- Install PHP 7.3

```
sudo apt-get install php7.3
```

- Check php version

```
php -v
```

- Installing PHP 7.3 Extensions

```
sudo apt-get install php7.3-cli php7.3-json php7.3-mysql php7.3-zip php7.3-gd php7.3-mbstring php7.3-curl php7.3-xml php7.3-bcmath php7.3-jpeg
```

• 3 Install composer globally

- Install composer (<https://getcomposer.org/download/>)

To quickly install Composer in the current directory, run the following script in your terminal. To automate the installation, use [the guide on installing Composer programmatically](#).

```
php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"
php -r "if (hash_file('sha384', 'composer-setup.php') ===
'48e3236262b34d30969dca3c37281b3b4bbe3221bda826ac6a9a62d6444cdeb0dcd0615698a5cbe587c3f0fe57a54d8f5')
{ echo 'Installer verified'; } else { echo 'Installer corrupt'; unlink('composer-setup.php'); }
echo PHP_EOL;"
php composer-setup.php
php -r "unlink('composer-setup.php');"
```

This installer script will simply check some php.ini settings, warn you if they are set incorrectly, and then download the latest composer.phar in the current directory. The 4 lines above will, in order:

- Download the installer to the current directory
- Verify the installer SHA-384 which you can also [cross-check here](#)
- Run the installer
- Remove the installer

- **Move the composer.phar file into your global path**

```
sudo mv composer.phar /usr/local/bin/composer
```

- **Check composer version**

```
composer --version
```

- **Upgrade composer (If needed)**

```
sudo -H composer self-update
```

- **Remove composer in order to re-install a newer version (Do this when upgrade composer command fails)**

```
sudo rm -f /usr/local/bin/composer
```

- **4 Install Laravel globally (<https://laravel.com/docs/5.8/installation>)**

```
composer global require laravel/installer
```

- Add Laravel to global path by adding this line to .bashrc file

```
export PATH=~/.composer/vendor/bin:$PATH
```

- **5 Switch to a Windows system code folder**

We want to create our code in Windows system, not WSL, so that we can access and edit the code using editor or IDE, and serve the project to localhost and open it on browsers in Windows system. One good option is the GitHub folder.

```
cd /mnt/c/Users/<netID>/Documents/<folder>
```

- Set up an alias in .bashrc so that you don't have to type the command each time

```
alias <name>="cd /mnt/c/Users/<netID>/Documents/<folder>"
```

- **6 Start your first Laravel project and serve it**

```
laravel new <project>
```

Local Development Server

If you have PHP installed locally and you would like to use PHP's built-in development server to serve your application, you may use the `serve Artisan` command. This command will start a development server at `http://localhost:8000`:

```
php artisan serve
```