C1 - Starting pack

C-DEV-000

How to

Install a developer environment

1.0

C*ding Academy

Introduction

Today we are going to see together how to install a complete developer environment from your computers which can have very different configurations: Windows, Linux, Mac OS, …

An effective web development environment consists of at least the following elements:

- An operating system or a linux overlay
- A code editor
- CLI tools
  - A package manager (apt, brew)
  - An improvement of the CLI (zsh) functionalities
  - Tools in CLI : bzip, curl, …
- Web tools
  - One (L|M|W)AMP server
  - Docker
  - Node.js + NPM
  - Dial
- Github desktop

We advise you to install a dual boot on your machine with windows and Ubuntu. Be careful, this solution is longer and may involve a loss of data from your initial OS. To do so, please refer to the dual boot install party subject.

By operating systems

Windows users

During the training we will use the WSL2 of windows, Docker for windows, and a WAMP server.

WSL2 is an overlayer for running Linux binaries natively on Windows.

1. Update your OS to the latest version
2. Install WSL2 avec la dernière distribution ubuntu disponible
3. Install WAMP

Optional

3. Install Docker pour windows
4. Configure Docker pour le WSL

Mac OS users

Mac OS is based on Linux, so its operation is similar to a Linux system with a few exceptions.

1. Install the package manager brew for the “Terminal” application of your OS
2. Install MAMP

Optional

3. Install docker

Linux users

1. Install LAMP

For every one

1. Test your server !

The code editor

1. Install Visual Code on your OS

Optional

2. Install extensions

    - ESLint
    - HTML CSS Support
    - Markdown All in One
    - PHP Extension Pack
    - PHP IntelliSense
    - PHP CodeSniffer

PHP CodeSniffer requires you install `composer` first and have a specific way to install, so… Read the manual ! `composer` also appear in the CLI section.

The CLI

1. Update your packages
2. Install zsh
3. Install the bzip package (`apt install bzip2`)
4. Install the curl package (`apt install curl`)
5. Install composer

You could need the `sudo` command for these steps.

Optional

6. Install Oh My Zsh

Github desktop

Github desktop is an interface to manage your github repository and your git commands.

1. Install it on your OS
2. Configure it

Check the Epitech "how to turn in" documentation to configure your github account.

Optionnal

Node & NPM

1. Install Node
    - For Ubuntu and WSL
    - For MAC OS (`brew install node`)
2. Test your install
    - `node -v`
    - `npm -v`