Environment setup

In order to complete this course you'll need to signup onto *Ionic View*:

- Ionic View[13] Install this App

  You'll also need a text editor. If you don't have a favorite then you'll have to install one. For all the examples here we'll use Atom[14] although there are many other great editors like Sublime Text[15] or even Vim[16] for the pros (Note: *Vim* is probably already installed in your system).

Then you'll need to install Vagrant[17]. Please follow the instructions of the downloads page for your specific system. We'll use Vagrant in order to have an isolated development environment that doesn't change from one development computer to another.

  Next we'll be using the Command-line interface[18]. Depending on your system, the command line interface can be accessed in different ways: - Mac: How to get to the command line on a mac[19] - Windows: 7 ways to launch the command prompt in windows 7 & windows 8[20] - Ubuntu: How to open a terminal window in ubuntu[21]

  It is essential you understand the basic options of the command line. Taking an online crash course[22] would be highly recommended if you haven't used the command line before.

---

[13]http://view.ionic.io/

[14]https://atom.io/

[15]http://www.sublimetext.com/

[16]http://www.vim.org/

[17]https://www.vagrantup.com/downloads.html

[18]http://en.wikipedia.org/wiki/Command-line_interface

[19]http://www.wikihow.com/Get-to-the-Command-Line-on-a-Mac

[20]http://www.7tutorials.com/7-ways-launch-command-prompt-windows-7-windows-8

[21]http://www.wikihow.com/Open-a-Terminal-Window-in-Ubuntu

[22]http://www.vikingcodeschool.com/web-development-basics/a-command-line-crash-course

Setup from clean Linux image

> If you've downloaded a preconfigured Vagrant box for the labs then skip to the next section.

Open a command line interface in your system. Move to a folder where you would like to work e.g. for your home directory type:

```
$ cd ~/
```

And then make a folder for the project and initialise Vagrant

```
$ mkdir code_camp
$ cd code_camp
$ vagrant init
```

This will create a file in your folder called `Vagrantfile`. Open this file with your favorite text editor and replace **all text** with the text below. Then save:

```
Vagrant.configure(2) do |config|
  config.vm.box = "ubuntu/trusty32"
  config.vm.hostname = "codecamp"
  config.vm.synced_folder "./", "/home/vagrant"
  config.vm.network "forwarded_port", guest: 8100, host: 8100
  config.vm.network "forwarded_port", guest: 35729, host: 35729
  config.vm.provision "shell", inline: <<-SHELL
    sudo apt-get update
    sudo apt-get install -y git nodejs nodejs-legacy npm git
    sudo npm install -g cordova ionic bower
  SHELL
end
```

Setup from pre-downloaded Vagrant box

Skip this section unless you've downloaded a a preconfigured box for the Labs.

On the terminal create folder for code_camp and move the file named `code_camp_-2015.box` inside. Then navigate to this folder using your terminal and do:

```
$ vagrant box add --name CodeCamp2015 ./code_camp_2015.box
$ vagrant init CodeCamp2015
```

Boot the environment

After that we're ready boot up our environment. Do:

This will take some minutes

```
$ vagrant up
```

Then

This step will prompt for a password. Use: *vagrant*

```
$ vagrant ssh
```

After this you should be logged into the console of our new development environment. Remember, we're doing this in order to have a development environment which is isolated from your computer. In this way we can develop without messing with your system and what's more important, we have a common predictable setup.

In order to check the setup type the following in your dev environment console:

```
vagrant@codecamp:~$ echo "console.log(1+1);" | node
```

You should get the following response:

```
2
```

If you see 2 on your screen then we're done for this section!

> The previous test executes 1+1 on the Javascript Nodejs console and
> outputs the result. If we can see 2 this means Node has installed correctly
> and our setup is correct.

Please make sure you've done the following before continuing:

- Signed up and installed *Ionic View* on my phone
- Installed a text editor
- Been familiar with the command line
- Installed *Vagrant*
- Replaced Vagrantfile
- Seen **2** on the screen