

Chapter 2: Installing a development environment

There are many different ways to install a local development environment. Our preferred method is using Virtualbox and Vagrant with a standard, pre-build box. This can be run across different OSs (Windows, Mac, Linux) and ensures everyone has the same versions of packages.

Download and Install VirtualBox and Vagrant

First step is to download and install VirtualBox and Vagrant.

VirtualBox

You can download VirtualBox for your platform from <https://www.virtualbox.org/wiki/Downloads>

Run the installer, then you can close this application.

Vagrant

Vagrant provides a *scriptable* virtual machine environments that are easily shared with others, or amongst your team.

You can download Vagrant for your platform from <https://www.vagrantup.com/downloads.html>

Run the installer and choose the defaults.

Vagrant Plugins

Vagrant supports the concept of plugins. The following plugins simplify the setup for running VirtualBox.

Open up a terminal and run the following commands:

```
$ vagrant plugin install vagrant-vbguest vagrant-auto_network vagrant-hostsupdater
```

Set up the Virtual Machine

VD8 (Vagrant for Drupal 8) is a project that allows you to quickly spin up a virtual machine, that is preconfigured with:

- Ubuntu 14.04
- Apache 2
- PHP 5.5 (with XDebug)
- Maria DB 5.5 (MySQL 5.5 compatible)

The VM provides sensible default configuration for all of these packages.

Download VD8

First, open up terminal, and clone the VD8 repo to a local development directory (e.g. ~/dev).

```
$ cd ~/dev
$ git clone git@github.com:nickschuch/vd8.git
```

Install required tools with Composer

VD8 provides extra tools to assist with installing, and re-installing a Drupal 8 site. You can install these tools using composer.

This includes:

- Drush
- Phing
- PHP Codesniffer and Drupal coding standards

Install required PHP tools using the following commands:

```
$ composer install
```

Download Drupal 8

Next, download Drupal 8 to an *app* directory inside your *vd8* directory. The Phing commands expect Drupal 8 to be installed in *app*.

```
$ cd vd8
$ curl -O http://ftp.drupal.org/files/projects/drupal-8.0.0-beta14.tar.gz
$ tar xf drupal-8.0.0-beta14.tar.gz
$ mv drupal-8.0.0-beta14 app
```

The above commands download Drupal using cURL, un-tar it and rename to *app*.

Tip: On Windows, you can download and unzip Drupal, as long as Drupal ends up in a directory called *app*.

Start up the VM

You are now ready to spin up your VM and bare bones Drupal 8 site.

Run the following command:

```
$ vagrant up
```

The first time this is run, it will take a while as it needs to download a virtual machine image.

Run the Drupal installation

You can now run the standard Drupal 8 installer by using the build-in Phing commands:

```
$ vagrant ssh
$ phing install
```

This will install Drupal 8 with some default configuration. You can now access your site at <http://d8.dev/>.

Login with the following details:

- Username: admin
- Password: password

You should see the following:

