

Building a typical dev environment for WordPress using Git, Vagrant & Ansible

BART MCLEOD





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- Self employed
- Painter
- Sculptor
- Php developer
- ZF2 developer and coach



Quick outline

- What makes a typical WordPress development environment?
- VirtualBox or VMware
- Vagrant
- Ansible
- WordPress under git

What makes a typical WordPress env?



wp-cli



WP_Mock

VirtualBox or VMware

- VirtualBox and VMware are both virtualization software
- VirtualBox is free.
- VMware Fusion (Mac) costs EUR 129,95, Workstation (Windows / Linux) is EUR 225,00
- VMware is fast and very stable
- Vagrant provider for VirtualBox is free
- Vagrant provider for VMware costs USD 79

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Vagrant

- Vagrant is a manager for your virtualized dev environments
- You use it from the command-line
- Once it works for you, it is simple
- You might need some courage to get up and running with it
- <http://vagrantup.com>

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Common Vagrant commands

- `vagrant up`
- `vagrant halt`
- `vagrant destroy`
- `vagrant status`
- `vagrant ssh`

vagrant up

```
bartmcleod@isle-of-skye ~/vagrant-vmware $
```

The base box

- Different base boxes for VirtualBox and VMware
- Do not try to convert between the two
- Just download what is right for you
- Advanced users can package their own VirtualBox base box
- You can't use the command line to package a VMware base box
- Configure the box using a process called provisioning

Provisioners

- File
- Shell
- Puppet
- Chef
- Docker
- CFEngine
- **Ansible**

Vagrant can use various provisioners.

The Vagrantfile can specify multiple provisioners to run.

It is up to you to find the combination that works best for you.

Ansible

- Is configuration management software for operating systems.
- Needs to be installed only on your machine, where you run it, it needs no installation on the machine it will configure.

```
$ port install ansible
```

- Uses a playbook to describe the packages on the remote machine and their desired **state**.
- Can configure as many machines as you like, using a single **playbook**.
- Uses **modules** that are specifically designed for each particular goal.
- <http://ansible.com>

The inventory file

```
default ansible_ssh_host=192.168.4.137 ansible_ssh_port=22 ansible_ssh_user=vagrant
```


Vagrantfile

```
# -*- mode: ruby -*-
# vi: set ft=ruby :

# Vagrantfile API/syntax version. Don't touch unless you know what you're doing!
VAGRANTFILE_API_VERSION = "2"

Vagrant.configure(VAGRANTFILE_API_VERSION) do |config|

  config.vm.box = "base"
  config.vm.network "private_network", ip: "192.168.4.137"

  config.vm.provision "ansible" do |ansible|
    ansible.verbose = 'v'
    ansible.playbook = "playbook.yml"
    ansible.inventory_path = "hosts"
    ansible.limit = 'all'
  end

end
```

The playbook

- hosts: default

vars:

http_port: 80

max_clients: 200

ssh_port: 22

remote_user: vagrant

sudo_user: root

sudo: true

tasks:

- name: install python properties to be able to use ppa

apt: pkg=python-software-properties state=latest update_cache=yes

- name: add repository for latest php

apt_repository: repo='ppa:ondrej/php5' state=present

Provisioning

vagrant-vmware — Vagrant with VMware — bash — 89x14
bartmcleod@isle-of-skye ~/vagrant-vmware \$

.gitignore

```
/*
!/.gitignore
!/import templates
!/wp/
!/doc/
/wp/*
!/wp/wp-content/
/wp/wp-content/*
!/wp/wp-content/plugins/
/wp/wp-content/plugins/wpallimport/libraries/cache/*
!/wp/wp-content/themes/
/wp/wp-content/themes/*
!/wp/wp-content/themes/jouw-docent/
/wp/wp-content/themes/jouw-docent/grunt/.sass-cache
/wp/wp-content/themes/jouw-docent/grunt/node_modules
/wp/wp-content/plugins/jouw-docent/grunt/.sass-cache
/wp/wp-content/plugins/jouw-docent/grunt/node_modules
/wp/wp-content/plugins/jouw-docent/js/*.js
/wp/wp-content/plugins/jouw-docent/css/*.css
.DS_Store
```

Thank you!

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