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Installation I

Installing Ruby and Ruby on Rails is something that all developers in any operating system struggle workings of each OS, there are many tools for Linux, Mac OS X, and Windows that people have create of RoR. However, configurations and dependencies are always going to be different depending on the developer in one OS will get an error that others in another OS would not. These types of inconsistent developing in any language or framework.

Enter Vagrant

Why Vagrant? (https://www.vagrantup.com/docs/why-vagrant) Vagrant is a tool to create configurab development environments.

... so whether you are working on Linux, Mac OS X, or Windows, all you running code in the same environment, against the same dependencies same way. Say goodbye to "works on my machine" bugs. - Vagrant

Doesn't this sound awesome? Everyone in this track will be running the same exact environment. There configuration or dependency error, the solution can be quickly shared to everyone! This means that all caused by the developer themselves, instead of obscure environment errors. In this chapter, we will see virtual machines, and set up a static IP address for us to interact with our RoR application through a beginning to the configuration of the same exact environment. There configuration or dependency error, the solution can be quickly shared to everyone! This means that all caused by the developer themselves, instead of obscure environment errors. In this chapter, we will see the configuration or dependency error, the solution can be quickly shared to everyone! This means that all caused by the developer themselves, instead of obscure environment errors. In this chapter, we will see the configuration of the configurati

Set Up Vagrant

system. For example, you can have a Mac OS X computer running a Windows virtual machine. To spin uses VirtualBox, a free virtualization software.

Vagrant allows users to easily create virtual machines. For those unfamiliar with VMs, they are simply a

- <u>Download (https://www.virtualbox.org/wiki/Downloads)</u> VirtualBox for your operating system.
- Download (https://www.vagrantup.com/downloads.html) Vagrant for your operating system.

Getting Started

The first vagrant command that we are going to learn is vagrant init. This built-in command will create Vagrantfile. This file is what Vagrant uses to configure our virtual machines. Let's create a directory and

```
$ mkdir first_vagrant_box
$ cd first_vagrant_box
$ vagrant init
```

Now you should have a Vagrantfile in your directory. Feel free to open it in your text editor but do not

Boxes

Instead of installing virtual machines from scratch every time, Vagrant uses a base image system to que virtual machine. These images are called Vagrant "boxes". Vagrant has a whole catalog of public boxe can visit at HashiCorp's Atlas catalog (https://atlas.hashicorp.com/boxes/search). Let's add the ubunt computer.

\$ vagrant box add ubuntu/trusty64

This command downloads that box from the catalog and saves it globally. To see a list of your boxes y

\$ vagrant box list

Next, we will configure our Vagrantfile to use the box that we just downloaded. Open the Vagrantfile a machine to boot up with our ubuntu box.

```
Vagrant.configure("2") do |config|
config.vm.box = "ubuntu/trusty64"
end
```

Vagrant Up

So far, we have done a couple things.

Downloaded a ubuntu image.

• Initialized a directory with a Vagrantfile that uses that image.

Next, we have to actually spin up that image into a running virtual machine. In your console, run:

\$ vagrant up

Once the VM is up and running, we can ssh into it.

\$ vagrant ssh

This command allows you to ssh into your virtual machine and interact with it. Soon, we will install Rulmachines!

Synced Folder

Everything is great so far, but how do we actually develop with our VM. Unless you are an expert in te Nano, writing code in your VMs does not seem like fun. So, Vagrant comes with a synced folder functi into your VM, run:

vagrant@vagrant-ubuntu-trusty-64:~\$ cd /vagrant vagrant@vagrant-ubuntu-trusty-64:~\$ ls Vagrantfile

This /vagrant directory in your VM is automatically synced with the host machine's directory where values where values was a subject of the synce of

\$ cd first_vagrant_box
\$ touch is_this_file_synced

Moment of truth.

vagrant@vagrant-ubuntu-trusty-64:~\$ cd /vagrant vagrant@vagrant-ubuntu-trusty-64:~\$ ls is_this_file_synced Vagrantfile

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