Building the Ansible Environment



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Globomantics Servers



We'll create local virtual servers to represent the Globomantics servers

Two Windows web servers, one Windows database server

We'll need one Linux server as the Ansible "control" computer



Start with a Small Test









We'll Need a Hypervisor

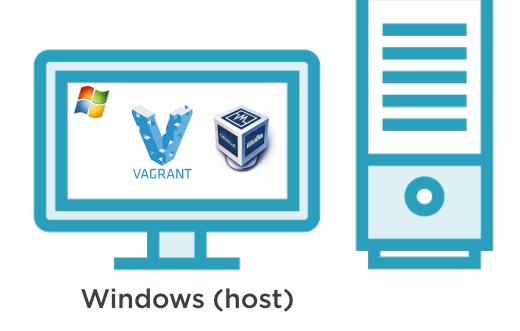


- Free
- Open Source
- Works great
- Runs on any platform work



Platform Considerations





** If you're hosting / running your hypervisor on Windows, you don't need a Windows VM



Demo



Create a Vagrant file with details about how to create the virtual machines

I've got a Windows instance already built - more on that in a bit

Once set up, we'll test our connections between virtual machines

VirtualBox: http://virtualbox.org

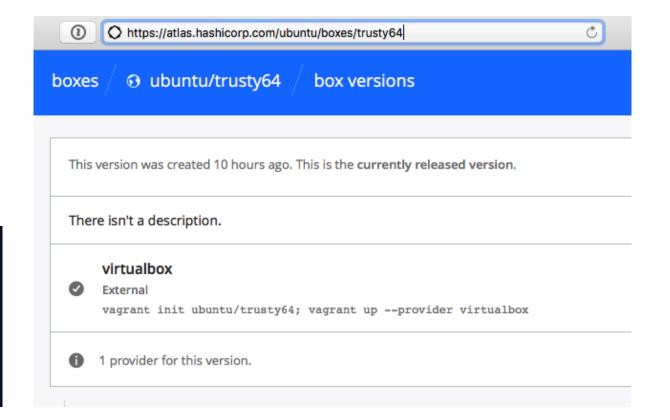
Vagrant: https://www.vagrantup.com



Where'd Those VM Images Come From?



```
config.vm.define "control" do |ctl|
  ctl.vm.box = "ubuntu/trusty64"
  ctl.vm.hostname = "ubuntu-control"
  ctl.vm.network "private_network", ip: "192.168.57.2"
  ctl.vm.provider "virtualbox" do |vb|
   vb.memory = 1024
  end
end
```





Atlas Has Many Linux Images

1 C atlas.hashicorp.com **Discover Vagrant Boxes** This page lets you discover and use Vagrant Boxes created by the community. You can search by operating system, architecture or provider. Search for boxes by operating system, included software, architecture and more Provider filter virtualbox vmware_desktop digitalocean docker google hyperv rackspace parallels Sort by Downloads Recently Created Recently Updated ubuntu/trusty64 15,246,225 downloads | 20160509.1.0 | last release 1 day ago Official Ubuntu Server 14.04 LTS (Trusty Tahr) builds laravel/homestead Official Laravel local development box. 5,825,078 downloads | 0.4.4 | last release 26 days ago hashicorp/precise64 A standard Ubuntu 12.04 LTS 64-bit box. 5,079,438 downloads | 1.1.0 | last release 2 years ago hashicorp/precise32 A standard Ubuntu 12.04 LTS 32-bit box. 1,951,005 downloads | 1.0.0 | last release 2 years ago puphpet/ubuntu1404-x64 Ubuntu Trusty 14.04 LTS x64 1,551,363 downloads | 20151201 | last release 5 months ago ubuntu/trusty32 1,072,927 downloads | 20160509.1.1 | last release 2 hours ago Official Ubuntu Server 14.04 LTS (Trusty Tahr) builds

Lots of Linux image options to choose from for Vagrant



Atlas Has Few Windows Images

 Windows is not free but is available as a 180 trial download from Microsoft

















Produce Your Own Vagrant Images!



You can use Hashicorp's "Packer" tool to build your own images

Read Matt Wrock's blog http://www.hurryupandwait.io/blog/

For Windows Desktop, it's not really worth it

I'll do my best to keep the Windows 2012R2 Server image fresh



Summary



Setup Ansible environment using Vagrant and VirtualBox

Created Vagrant files to easily provision virtual machines

Now we'll install Ansible on the control instance

