

VAGRANT UP AND RUNNING

Rob Bayliss



 lastcallmedia.com

 allaboard@lastcallmedia.com

 [@lastcallmedia](https://twitter.com/lastcallmedia)

ABOUT ME

- CTO at Last Call Media
- PHP/Drupal Developer
- Lead Architect
- Educator
- Open source advocate



DIGITAL DESTINATION:
STRATEGY, DESIGN AND DEVELOPMENT

STREAMLINED SOLUTIONS TO
KEEP YOU ON THE **RIGHT TRACK.**



VAGRANT?

A tool for creating portable development environments.

VAGRANT?

- Quickly spin up new developers with a powerful, custom stack
- Share your environment with your team
- Maintain multiple environments
- Emulate a production environment

VAGRANT?

You **do** use a production-like environment for all of your development, right?



WHAT ABOUT VIRTUALIZATION?



vmware

THE BASICS:

Vagrant is a command line tool. Here are the most important commands:

- **vagrant init** - *initialize a new vagrant box in the current directory*
- **vagrant up** - *start an existing vagrant environment (box) and provision it*
- **vagrant ssh** - *shell into a running vagrant box*
- **vagrant halt** - *stop a running vagrant box (shut down the computer)*
- **vagrant destroy** - *completely destroy a vagrant box (delete all the things)*

THE LINGO

vagrant box - *an instance of a VirtualBox VM that has been provisioned and started using Vagrant*

base box - *a stored VirtualBox machine packaged into a single file. Think of this as the template for your Vagrant box.*

provision - *the configuration step that comes after the Vagrant box loads.*

Vagrantfile - *a single file that defines what a particular Vagrant box is, including the base box, network settings, and provisioning.*

INSTALLATION

1. [Download VirtualBox](#)
2. [Download Vagrant](#)
3. Create a new Vagrant box (vagrant init rbayliss/debian-wheezy)
4. Start the Vagrant box (vagrant up)

A BASIC EXAMPLE

THE VAGRANTFILE

```
Vagrant.configure(VAGRANTFILE_API_VERSION) do |config|  
  ... Stuff goes here  
end
```

THE VAGRANTFILE

Every Vagrant virtual environment requires a box to build off of.
`config.vm.box = "puppetlabs/debian-7.5-64-puppet"`

THE VAGRANTFILE

```
# Create a private network, which allows host-only access to the machine  
# using a specific IP.  
config.vm.network "private_network", ip: "192.168.33.10"
```

THE VAGRANTFILE

```
# Share an additional folder to the guest VM. The first argument is  
# the path on the host to the actual folder. The second argument is  
# the path on the guest to mount the folder.  
config.vm.synced_folder "../data", "/vagrant_data"
```

THE VAGRANTFILE

```
# Provision using a shell script:  
config.vm.provision "shell", path: "provision.sh"
```


PROVISIONING

Provisioning can be done with many tools.



CREATING A NEW BASE BOX

1. Start from an existing box
2. Install only the pieces you know you'll always need
3. Clean up
4. Export the .box file (vagrant package)
5. Upload to a web-accessible place
6. Add to Vagrant Cloud

CONCLUSION

Vagrant is only a tool...

A super awesome, powerful tool to help you spread sustainable development practices at your organization.

LINKS

<https://www.vagrantup.com>

<https://vagrantcloud.com>

<http://www.vagrantbox.es>

<https://vagrantcloud.com/puppetlabs>

<https://github.com/rbayliss/vagrant-demo>

QUESTIONS?

Twitter: @rbayliss

Website: <https://lastcallmedia.com>

Email: rob@lastcallmedia.com