# Drupal in Virtual Environments

(or whatever that means!)



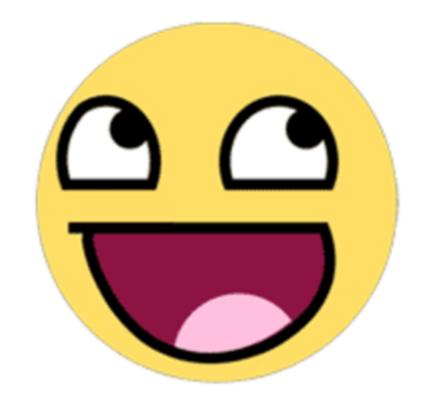


Two things about this session...

• This isn't a how-to.

There really isn't a second thing.

Anyway...





## Why virtualize your local dev?

- Consistency
  - Multiple locations, computers, and OS on an average dev team.
- Speed Improvements
  - Spin up new sites quicker
  - Spin up old sites quicker.



## What are the options?

Where do I even get started??





### The environment builder things. (The apps that make this possible.)

• Vagrant (<a href="https://www.vagrantup.com">https://www.vagrantup.com</a>)



- Works with Virtualbox and VMware.
- Docker (<u>https://www.docker.com</u>)



Containers and a cool whale logo!



#### All-in-one Solutions

- Kalabox (<u>http://www.kalamuna.com</u>)
  - Vagrant or Docker depending on the version.
- PuPHPet (<u>https://puphpet.com</u>)
  - Uses Vagrant and the puppet provisioner.



### Provisioners (The scripts that build your environments)

- Puppet (https://puppetlabs.com)
- Chef (<u>https://www.chef.io</u>)
- Ansible (<a href="http://www.ansible.com">http://www.ansible.com</a>)
- Fabric (<a href="http://docs.fabfile.org/en/latest">http://docs.fabfile.org/en/latest</a>)
- Others I haven't heard of.



#### That seems like a lot of options...

How will I know which combination is right for my team?



#### Consider

- Dedicated DevOps/IT team?
- One person show or a big team?
- How much customization do you want/need?



#### Pitfalls



- There will be things to install locally on each machine.
- Won't magically work on each computer without a little effort.
- Troubleshooting provisioners isn't simple without a little knowledge of the parts.
- Don't Hack It!
- Syncing can be a pain.



### Best Practices (Or how to get the most out of it)

- Start with an existing project
  - Like Vampd (<a href="https://github.com/vampd/vampd">https://github.com/vampd/vampd</a>/
  - or VLAD (https://github.com/hashbangcode/vlad)
- Go Slow
- If you don't like \_\_\_\_ language don't use a provisioner based on it.
- Mirror what matters from Prod
- Submodules!
- Research





### Thanks!

Questions?

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#### Credit for things I found:

- pitfall image (<a href="http://upload.wikimedia.org/wikipedia/en/5/54/2600\_Pitfall.png">http://upload.wikimedia.org/wikipedia/en/5/54/2600\_Pitfall.png</a>)
- vagrant logo (<a href="http://vagrantup.com">http://vagrantup.com</a>)
- docker logo (<a href="http://docker.com">http://docker.com</a>)
- matrix image (<a href="http://www.consciousconsumernetwork.tv/">http://www.consciousconsumernetwork.tv/</a>)
- awesome face (<u>http://knowyourmeme.com/memes/awesome-face-epic-smiley</u>)

