

Ron Popeil Never Had It So Good

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LEX>>FWD

'Lex Forward'

Who Are We?

- Wes Eklund
 - Developer (PHP & Android)
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- Warren Myers
 - Data Center & Cloud Automation Professional
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What Are You Doing!?

- 100 Developers Across 7 Teams Start On A New Project ...
 - 1 full day per dev per workstation for *their* active environment
 - IT support for Dev, Test, Prod server environments
- Client Requirements Shift
 - (This *never* happens...)
 - Whatinthebloodymonkey ... :(

What Are You Doing!?

- Small Web Hosting Company Has 600 Customers...
 - Every customer has at least one VPS (VM)
 - Company standard is CentOS 6 for VMs
 - Every server is built ... by hand
- CentOS 7 Is Released ... Company Standard Goes to Windows
 - Whatinthebloodymonkey ... :(

Why Automate?

- If you have to ask ...
- Art is amazing ...
 - When you have time
 - When cost is no concern
- Tools are awesome ... to start automating
 - As a start
 - As an intermediary
 - As an iterative improvement
- Automation
 - What is the goal?
 - Eliminate your own job!

Tools Overview

- Types of automation tools
 - Licensing
 - Architectural approach
- Supported platforms
 - Windows
 - Linux/Unix
- Target audience
 - Developers
 - SysAdmins

How They Work - Ops

- Puppet, Chef
 - Agent based
 - Centralized
 - Pull oriented
- Cfengine
 - Non agent based
 - Distributed-ish
 - Push-me/Pull-you model
- Ansible
 - Non agent based
 - Centralized
 - Push oriented
- HP Server Automation (\$\$\$)
 - Agent based
 - Centralized
 - Push oriented

How Vagrant Works

- Basically: wrapper for your favorite VM provider
 - AWS, DO, VirtualBox ...
- Creates network map to your project files
 - Host share to VM
- Declarative configuration language
 - Instantiates VM (describe & provision)
- Vagrant config files in project root (vc magic happiness)
- Plays nice with industry-standard provisioning tools

Sysadmin Example

- Manual
 - Install RHEL - by hand
 - Install updates - by hand
 - Install software - by hand
 - Configure - by hand
- Automating
 - Kickstart
 - Template
- Automation
 - Kickstart/Template -> Software policies -> Automated updates -> Config management

Dev Example - Vagrant / DO

- Installed Prereqs
 - VirtualBox (my local VM provider)
 - Vagrant
 - DO Vagrant plugin (my remote VM provider)
 - `vagrant plugin install vagrant-digitalocean`

Questions?

Links

- <http://digitalocean.com>
- <http://virtualbox.org>
- <http://vagrantup.com>
- <http://github.com>
- <http://ansibleworks.com>
- <http://getchef.com>
- <http://cfengine.com>
- <http://puppetlabs.com>
- <http://saltstack.com>
- <http://www8.hp.com/us/en/software-solutions/server-automation-software>
- <https://www.youtube.com/watch?v=rNy1iFdeV2U>

Meetup Chores

What?

When?

Who?