How to open source your Puppet configuration

PuppetConf
23 September 2014

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• Linux hobbyist since 2002
• Professional systems administrator since 2006
• Contributor to Ubuntu, Debian and OpenStack projects
• But perhaps most importantly...
OpenStack Infrastructure

We have open sourced our infrastructure!

Lots of projects, including ones for configuration available via:

https://git.openstack.org/cgit/openstack-infra
How this came about

Puppet show, featuring:

Monty Taylor (stick puppet)
James E. Blair (stick puppet)
Why?

Examples are awesome

(I don't want to spend all week figuring out how to use your puppet module)
Why?

Encourages better practices

(our upgrade to Puppet 3 was not so painful)
Why?

Allows others in your organization to suggest changes
Why?

Sharing is nice
OK, so how?

- Prepare policies
- Segregate code
- Document
- Share!
Have an open source policy

All software used in your infrastructure is Open Source

...if not, segregate out proprietary
Licenses!

Add a license to your configuration files :)

Seriously.

This is important.

Don't make me email you to ask the license of your config.
Puppet: Step 1

Leverage existing modules or write your own with the intent of sharing

Apache
MySQL
Reviewday

Keep these outside your generic configuration tree

(You're already doing this, right?)
Puppet: Step 2

Split out:

system configuration
project configuration

This makes it easier to consume by others
Puppet: Step 3

Split out non-sensitive custom configurations into your own module

(Parameterized classes and variables are your friends!)
Puppet: Step 4

Use Hiera for sensitive data

(*Hiera is my favorite thing ever (except for when it's not)*)
Puppet: Step 5

Set up PuppetBoard

Allows people in your org/community to see status without bugging folks with shell access
Document

• Links to source
• Work flow for using the configuration
• Contribution instructions
  – Direct commits/reviews
  – Bug reports
• Bootstrapping and glue
Share!

(Oh, and make sure you have a license)
Who else has open source Puppet?

Debian: https://dsa.debian.org/

Mozilla: https://wiki.mozilla.org/ReleaseEngineering/PuppetAgain

Jenkins: http://jenkins-ci.org/content/come-join-infra-team
Resources

OpenStack Project Infrastructure docs:
http://ci.openstack.org/

OpenStack Infrastructure repository:
https://git.openstack.org/cgit/openstack-infra/

OpenStack specs for when we split out some of our configs:

http://specs.openstack.org/openstack-infra/infra-specs/specs/config-repo-split.html
http://specs.openstack.org/openstack-infra/infra-specs/specs/puppet-modules.html