

# How to open source your Puppet configuration

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# Elizabeth K. Joseph

- 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

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# 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)*

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# 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>