Open Source Systems Administration

SCaLE12x Infrastructure.Next
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Elizabeth Krumbach 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!

Grab:

`git clone git://git.openstack.org/openstack-infra/config`

Or just browse:

`https://git.openstack.org/cgit/openstack-infra/config/tree`

All projects:

`https://git.openstack.org/cgit/openstack-infra/`
Why?

Examples are awesome
(read: I don't want to spend all month figuring out how to use your crazy infrastructure)
Why?

Encourages better practices
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.
Puppet: Step 1

For anything generic that others may want to use, leverage existing modules or write your own with the intent of sharing

Apache
MySQL
Reviewday

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

Split out non-sensitive custom configurations into your own module
Puppet: Step 3

Use Hiera for sensitive data

(Hiera is my favorite thing ever)
Document

• Links to source
• Work flows
• Contribution instructions
  – Direct commits/reviews
  – Bug reports
• Bootstrapping and glue
Share!

(Oh, and make sure you have a license)
Who else is doing it?

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

**Fedora:** https://fedoraproject.org/wiki/Infrastructure

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

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

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