DEV Toolsets for OPS

Jerald Sheets
Shadow-Soft
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Quick Plug…

   I work for…

      And also do stuff for…

         I perform…

            I Have…

SHADOW SOFT
http://shadow-soft.com

puppet labs®
http://puppetlabs.com

Puppet Bootstraps   Linux Consulting

Puppet Consulting   Technical Blogging

RED HAT CERTIFIED
SYSTEM ADMINISTRATOR
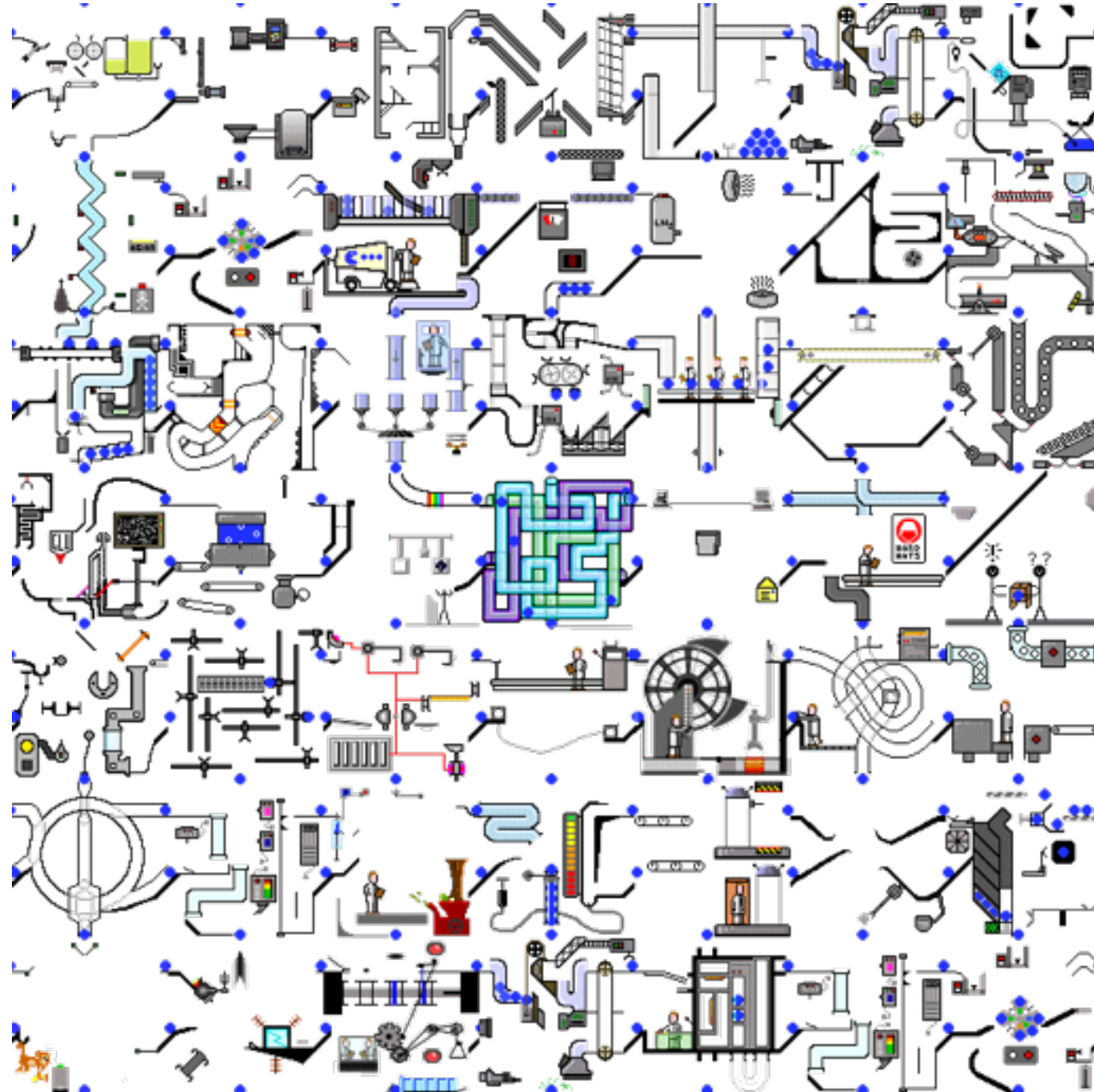redhat.

RED HAT CERTIFIED
ENGINEER
redhat.

Before we get started…

This Talk is For Beginners

If you're at the stage where you're doing this…

You're gonna be just a little **BORED**

Where Are You Today?

One or More Admins

Installed & Configured

Pushing Code Around

Developing Ad-Hoc Modules

Running Scripts to Check Syntax

Managing a Few (or many) Nodes

Running Tests in Active DEV Environments

Clearly Defined DEV Process

Centralized, Repeatable, Shareable Code

Syntax and Parsing Handled
Before It's "Too Late"
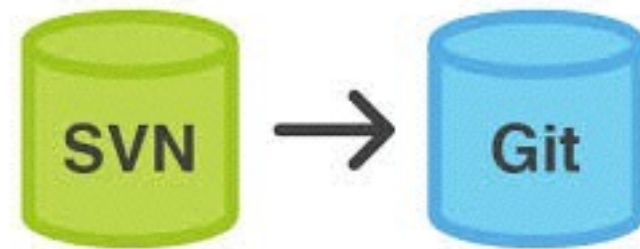
Localized DEV Environments
in Virtualization

<== How do we get this guy

Instead of This Guy ==>

?

First, We'll Need to Keep Our Code

Recommended

Git-Svn

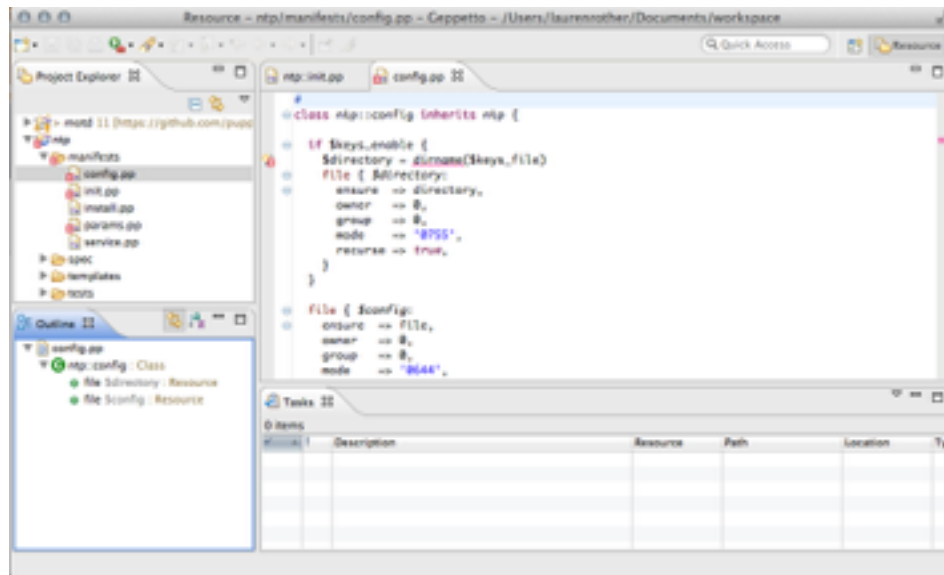"Trunk" Represents Latest
Stable Release

Manages Code in Branches

Active Work Under Branches

Distributed Version Control

Finalized Features Merged into Trunk

VERY Fast

Next, We'll Need to Write Our Code
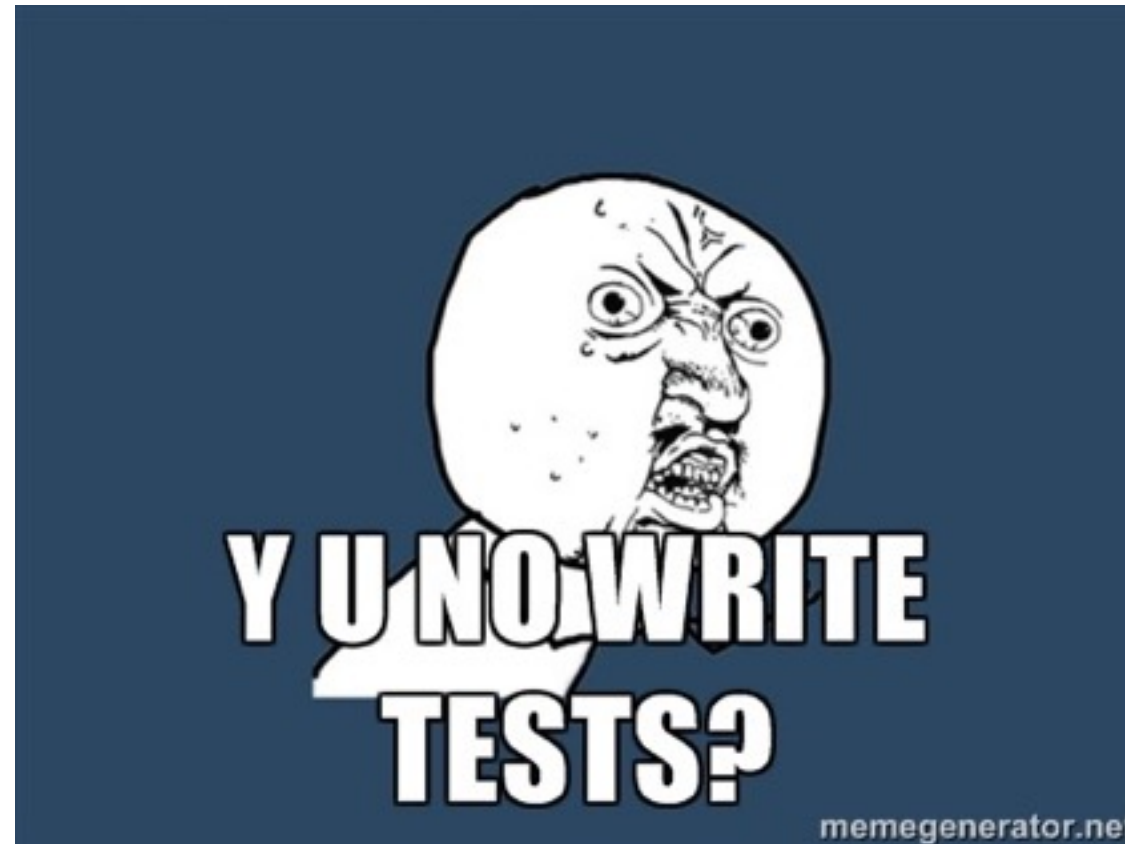
Write Our Code… Part II

+

We'll Need to Test Our Code

Syntax Checking

Parser Testing

Style Checking

Git Hooks

Simple --noop
"Test and Observe"

rspec Testing
(Ruby)

Environment Testing

Local Virtualized
Testing

Whatever you do, *TEST YOUR CODE*

We'll Need to Move Our Code

Centralized, Resilient Storage

r10k Deployments

Synchronized, Distributed Git/SVN

Scripted Deployments

"Masterless" Puppet w/ Local Checkouts

External Tools

Whenever Possible, Automate-Automate-Automate

And Of Course… Share Our Code

Puppet Forge

Enabled by Using Hiera
To Store Private Data

Be Sure to *USE* Forge
Modules Too

Take Part in the
Community

Conclusion

Many DEV Tools
Out There

Attend
PuppetConf

Lots of
Documentation

Attend
PuppetCamps

Large, Active
Community

Network
&
Share

Thank You!

Questions?

Resources

Subversion
http://subversion.apache.org

Git
http://git-scm.org

GitHub
https://github.com

Vagrant
http://vagrantup.com

Puppet Vagrant Boxes
http://puppet-vagrant-boxes.puppetlabs.com

My Vagrant Project
https://github.com/cvquesty/vagrant-ss

VirtualBox
https://www.virtualbox.org

VMWare
http://www.vmware.com/products/desktop-virtualization.html

Puppet Parser
https://docs.puppetlabs.com/references/3.4.0/man/parser.html

Puppet-Lint
http://puppet-lint.com

Git Hooks
http://puppetlabs.com/blog/how-set-git-commit-hooks-puppet-enterprise

--noop
https://docs.puppetlabs.com/references/3.3.latest/man/apply.html
https://forge.puppetlabs.com/trlinkin/noop

Rspec
http://code.tutsplus.com/tutorials/ruby-for-newbies-testing-with-rspec--net-21297

Jenkins
http://jenkins-ci.org

Maven
http://maven.apache.org

Gradle
http://www.gradle.org

Puppet Forge
https://forge.puppetlabs.com

Hiera
https://docs.puppetlabs.com/hiera/1/

My Site
http://questy.org

Gary Larizza's Blog
http://garylarizza.com

My Employer
http://shadow-soft.com