Advanced Topics in Puppet

LOAD
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# whoami
Puppet Labs is Hiring

http://puppetlabs.com/company/careers/

• Release Engineer
• Software Developer
• Certification Program Manager
• Professional Services Engineer
We’re going to jump around

• style
• provisioning
• software repo’s
• Hiera
• MCollective
• Version Control / Dev workflow / Testing
Coding style

http://docs.puppetlabs.com/guides/style_guide.html
four digit mode

```plaintext
file { '/etc/sudoers':
  mode => '0440',
}
```
# Include OS specific module

```hcl
case $::operatingsystem {
  'redhat': {
    include redhat
  }
  'centos': {
    include centos
  }
  'solaris': {
    include solaris
  }
  default: {
    fail("Supported operating systems include RedHat, CentOS, and Solaris. Your OS is identified as [{$::operatingsystem}]"
  }
}
```
Inheritance

class ssh { ... }

class ssh::client inherits ssh { ... }

class ssh::server inherits ssh { ... }

class ssh::server::solaris inherits ssh::server { ... }
Inheritance

class ssh inherits server { ... }
class ssh::client inherits workstation { ... }
class wordpress inherits apache { ... }
Inheritance
Inheritance

node 'www1' {
  include apache
  include common
}

Best Practices
Start from a known base
Provision small
Provisioning process
Software Repo’s

• No ensure => latest in your code.
• Specific version strings are even worse
Run your own Software Repo’s
Version control your Repo’s

/data/repos/CentOS_6.1_Base
symlinks to
/data/repos/CentOS_6.1_Base-2012032400
Hierarchical clustering
Decoupling data and modules

• show me the code
MCollective
VCS Structure (SVN view)
Flow

- puppet test env
- dev
- qa
- prod

- trunk/master
  - run off trunk/master
  - tag X
  - tag X
  - tag X

- topic branch