Advanced Topics in Puppet

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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

file { '/etc/sudoers':
    mode => '0440',
}

default fail()

```bash
# Include OS specific module
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

```
node 'www1' inherits apache {}
node 'app1' inherits base {}
```
Inheritance

code:

```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
Hierar
Decoupling data and modules

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