

# CODE MANAGER & RISK



**Puppet**

## Overview

- Code Manager and r10k are used to manage and deploying your Puppet code.
  - Install Puppet modules.
  - Create and maintain environments.
  - Deploy new code to your masters.
  - Keep your module code in Git.
- Code Manager automates the management and deployment of your new Puppet code.
  - Push your code updates to your Git repository.
  - Puppet creates environments based off of the branch.
  - Installs modules.
  - Deploys and syncs the new code to your masters.
  - All without interrupting agent runs.

## Overview

- You can use r10k to manage your Puppet code instead of Code Manager.
  - You should really use Code Manager.
  - Code Manager works with r10k.
- Both tool are built into Puppet Enterprise.
- Create a control repository for maintaining your environments and code.
- Set up Puppetfiles if you want to install modules in your environments.
- Configure Code Manager (recommended) or r10k. Existing environments will not preserved.
- `/etc/puppetlabs/code/environments/production` will be overwritten.

# STEPS FOR CONFIGURING CODE MANAGER & R10K

Create an empty repository in github

Download control-repo from

“<https://github.com/puppetlabs/control-repo>”

```
wget https://github.com/puppetlabs/control-repo/archive/production.zip
```

```
yum install unzip
```

Unzip the file into git cloned repository

Navigate into directory

# STEPS CONTD

```
git commit -m "Added control-repo"
```

Now login into PE Console

Navigate to Nodes=> Classification => PE Master => classes

Add parameters into "puppet\_enterprise::profile::master" as shown

# STEPS CONTD...

Class: puppet\_enterprise::profile::master

Parameter		Value
r10k_private_key	=	/etc/puppetlabs/puppetse <small>Converted to string</small>
r10k_remote	=	<git url of control repl> <small>Converted to string</small>
code_manager_auto_configure	=	true

# STEPS CONTD

Login into puppet master and navigate  
/etc/puppetlabs/puppetserver

Mkdir ssh and cd into it

ssh-keygen -t rsa -b4096 -C "<emailaddress>" and give the  
path of ssh directory for key

Give pe-puppet permissions to ssh folder

chown -R pe-puppet:pe-puppet ssh/

Add the contents of id\_rsa.pub to github



# STEPS CONTD

Execute puppet agent -t on master

r10k deploy display --fetch

Create user deploy user in puppet master

Add role code deployers

Generate auth token using “puppet-access login --service-url “<puppetmasterurl>:4433/rbac-api” --lifetime 365d

Ensure puppet production directory is empty

Ensure default branch is production