Puppet

**Resource:**

Eg: user { 'mitchell':

**ensure** => present,

uid => '1000',

gid => '1000',

shell => '/bin/bash',

home => '/home/mitchell'

}

Default list of all resources available in puppet:

puppet resource --types

**Manifest**

The program that we write in puppet is called manifest, the file extension is .pp

Default file:/etc/puppet/manifests/site.pp

**Classes**

It’s like functions that we write using or on top of resources, to make the manifest more encapsulated and easy to read/understand

Definition format:

**class** **example\_class** {

...

code

...

}

Class declarations come in two different flavors: normal and resource-like.

A **normal class declaration** occurs when the include keyword is used in Puppet code, like so:

**include** example\_class

This will cause Puppet to evaluate the code in example\_class.

A **resource-like class declaration** occurs when a class is declared like a resource, like so:

**class** { '**example\_class**': }

Using resource-like class declarations allows you to specify class parameters, which override the default values of class attributes.

Eg:

node 'host2' {

**class** { '**apache**': } # use apache module

apache::vhost { 'example.com': # define vhost resource

port => '80',

docroot => '/var/www/html'

}

}

So basically: **Classes are created using resources, classes are used while writing Manifests**

Example: Basic Lamp stack creation:

<https://www.digitalocean.com/community/tutorials/getting-started-with-puppet-code-manifests-and-modules>

Installation:

Sudo yum install <http://yum.puppetlabs.com/puppetlabs-release-el-6.noarch.rpm>

Sudo yum install puppet

Sudo yum -y install nano

Setting the puppetmaster

Vi /etc/puppet/puppet.conf

Add:

[agent]

Server = puppetmaster

Generate puppet certificate:

sudo puppet agent –verbose –no-daemonize –onetime

on the master, signing the certs:

listing: sudo puppet cert list

signing: sudo puppet cert sign <certname>

to check communication from the agent:

sudo puppet agent –verbose –no-daemonize –onetime

please NOTE when an agent is installed on Ubuntu, it is disabled by default.

Sudo puppet agent –enable

[‎30-‎Jan-‎17 2:25 PM] Karishma Singh:

puppet command

rpm -ivh https://yum.puppetlabs.com/puppetlabs-release-el-6.noarch.rpm

yum install puppetserver

puppet master --verbose --no-daemonize

puppet cert clean nag-temp.nagarro.local

/etc/init.d/puppetserver status

puppet cert list

puppet cert sign "devnag-scm003.nagarro.local"

 puppet module generates devops-serverconfiguration --environment production

 mv devops-serverconfiguration serverconfiguration

 agent

  yum install http://yum.puppetlabs.com/puppetlabs-release-el-6.noarch.rpm

  rpm -ivh puppetlabs-release-el-6.noarch.rpm

puppet agent --verbose --no-daemonize --onetime

service puppet restart

command to run on puppet agent: puppet agent -t