**The below code tested on Cent OS 7.0 and Puppet 4.8 version**

**Login to Puppet Master Server**

Note: Disable Firewall and selinux

1) cd /etc/puppetlabs/code/environments/production/modules

2) sudo mkdir apache

3) sudo mkdir {manifests,templates,files}

4) cd manifests

pwd

/etc/puppetlabs/code/environments/production/modules/apache/manifests

5) vi init.pp

class apache{

class { '::apache::install': } ->

class { '::apache::vhost': } ->

class { '::apache::config': } ->

class { '::apache::service': } ->

Class['apache']

}

:wq! (save & exit)

6) vi install.pp

class apache::install {

package{'httpd':

ensure => present,

}

}

:wq! (save & exit)

7) cd /etc/puppetlabs/code/environments/production/modules/apache/templates

8) vi vhosts.conf.erb

<VirtualHost \*:80>

ServerName <%= @fqdn %>

ServerAlias www.<%= @fqdn %>

DocumentRoot /var/www/<%= @hostname -%>/public\_html/

CustomLog /var/www/<%= @hostname -%>/logs/access.log combined

</VirtualHost>

:wq!

9) cd /etc/puppetlabs/code/environments/production/modules/apache/manifests

vi vhost.pp

class apache::vhost {

file { '/etc/httpd/conf.d/vhost.conf':

ensure => file,

content => template('apache/vhosts.conf.erb'),

require => Class['apache::install'],

}

}

:wq! (save & exit)

10) vi config.pp

class apache::config {

file { "/var/www/$hostname":

ensure => directory,

}

file { "/var/www/$hostname/public\_html":

ensure => directory,

}

file { "/var/www/$hostname/logs":

ensure => directory,

}

file { "/var/www/$hostname/public\_html/index.html":

ensure => file,

content => "### Welcome ### Apche install on $hostname By Puppet Master Server",

mode => '0644',

require => Class['apache::vhost'],

}

}

:wq! (save & exit)

11) vi service.pp

class apache::service{

service{'httpd':

ensure => running,

enable => true,

require => Class['apache::config']

}

}

:wq! (save & exit)

12) cd /etc/puppetlabs/code/environments/production/manifests

vi site.pp

node puppet-client1 {

include apache

}

node puppet-client2 {

include apache

}

:wq! (save & exit)

**On Puppet Client**

Note: Disable Firewall and selinux

Run following commands to get updates from Puppet master server

puppet agent -t

Note: some time need to refresh catalog data in client

cd /opt/puppetlabs/puppet/cache/client\_data/catalog/

rm -f \*

**Validation:**

Add hosts entry in your local hosts file on your Laptop

For windows users :

Go to following path open host file in notepad (Open as administrator) add entries

C:\Windows\System32\drivers\etc\hosts

Example:

192.168.1.150 puppet-server.raghu.com

192.168.1.151 puppet-client1.raghu.com

192.168.1.152 puppet-client2.raghu.com

For Linux users :

vi /etc/hosts

192.168.1.150 puppet-server.raghu.com

192.168.1.151 puppet-client1.raghu.com

192.168.1.152 puppet-client2.raghu.com

Open web browser and type URL with your client FDQN name (http:// puppet-client1.raghu.com) and check the hostname in the web page.