

# Node definition

Ex:

```
node '192.168.33.45' {
    include common
    include apache
}

node 'mynode.satish.com' {
    include httpd
    include apache
}
```

```
class myapache
{
  package {'apache2':
    ensure => installed,
  }
}

class myhttpd
{
  package {'httpd':
    ensure => installed,
  }
}

node 'pup-node1.c.sathya-171302.internal'{
  include myapache
}

node 'pup-node2.c.sathya-171302.internal'{
  include myhttpd
}
```

# Template

## Evaluating Templates

```
$value = template ("testtemplate.erb")
```

we can also specify the full path of a template.

Ex:

```
file { "/etc/apache2/dav_svn.conf ":
  ensure => "present",
  content => template('test.erb')
}
```

# Template

```
#vi /etc/puppet/templates/test.erb
<Location "/cgi-bin/<%= name %>.cgi/login">
    AuthType Basic
    AuthName "Test"
    AuthUserFile /etc/tomcat/auth svn
    Require valid-user
</Location>
```

# User defined Modules

## Example-Module1:

```
#cd /etc/puppet/modules  
#mkdir -p nginx/manifests/  
#vi nginx/manifests/init.pp  
  
class nginx {  
    exec { 'yum update':  
        command => '/bin/yum install'  
    }  
    package { 'nginx':  
        ensure => installed,  
    }  
    service { 'nginx':  
        ensure => running,  
        require => package['nginx'],  
    }  
}
```

# User defined Modules

## Example-Module2:

```
#cd /etc/puppet/modules  
#mkdir user/manifests  
#vi user/manifests/init.pp  
  
class user {  
    user {'testuser':  
        ensure => present,  
        comment => 'user',  
        home => '/home/testuser',  
        managehome => true  
    }  
}
```

## To Run the Modules :

```
#vi /etc/puppet/manifests/site.pp
```

```
node 'pupnode1' {
```

```
    include nginx
```

```
}
```

```
node 'pupnode2' {
```

```
    include user
```

```
}
```

```
Node1# puppet agent -t
```

```
Node2# puppet agent -t
```

# Copy File to Nodes

```
# cd /etc/puppet  
# mkdir -p modules/mymodule/manifests  
# mkdir -p modules/mymodule/files  
# vi modules/mymodule/manifests/init.pp  
class myfile {  
    file { "filecopy":  
        path => "/var/www/html/index.html",  
        source =>  
        'puppet:///modules/mymodule/index.html',  
    }  
}
```

# Copy File to Nodes

```
# vi modules/mymodule/files/index.html
```

```
<h1> Hello from Puppet Master </h1>
```

```
# vi /etc/puppet/manifests/site.pp
```

```
import 'mymodule'
```

```
include myfile
```

Node1# puppet agent -t

# node2# puppet agent -t

```
* auth.conf
  etckeeper-commit-post
  etckeeper-commit-pre
  files
  fileserver.conf
  manifests
    └── site.pp
  modules
    exec
      manifests
        └── init.pp
    user
      manifests
        └── init.pp
  puppet.conf
  templates
```

**Master# puppet module install puppetlabs-mysql --version 3.10.0**

**Master# puppet module install mayflower-php --version 4.0.0-beta1**

**#cd /etc/puppet/modules**

**#vi /etc/puppet/manifest/site.pp**

**include '::mysql::server'**

**include '::php'**

**Agent# puppet agent -t**

**Agent# mysql**

**Agent# php -v**

# Module Generate

```
#cd /etc/puppet/modules  
#puppet module generate sathya-httpd  
#cd /etc/puppet/modules/sathya-httpd  
  /manifests/install.pp  
  
class httpd::install inherits httpd {  
  package { 'httpd':  
    ensure => installed,  
  }  
}  
}
```

```
#cd /etc/puppet/modules/sathya-httpd  
/manifests/start.pp  
  
class httpd::start inherits httpd{  
    service { 'httpd':  
        ensure  => running,  
        enable  => true,  
        hasstatus => true,  
        hasrestart => true,  
        require => Package['httpd'],  
    }  
}
```

```
#cd /etc/puppet/modules/sathya-httpd  
/manifests/init.pp  
  
class httpd {  
    include httpd::install  
    include httpd::start  
}  
  
#cd /etc/puppet/manifests/site.pp  
node default {  
    include httpd  
}  
  
node# puppet agent -t
```