



# puppet

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# Chaining resources

resources may be chained together to declare relationships between and among them.

```
exec {'update':  
      command => '/usr/bin/apt-get update',  
}  
  
package {'wget':  
      ensure => installed,  
}  
  
Exec['update']->Package['wget']
```

# Chaining resources

```
exec {'update':  
      command => '/usr/bin/apt-get update',  
      before => Package['wget'],  
}  
  
package {'wget':  
      ensure => installed,  
      require => Exec['update'],  
}
```

# Chaining resources

```
package { 'openssh-server':  
    ensure => present,  
    before => File['/etc/ssh/sshd_config'],  
}  
  
file { '/etc/ssh/sshd_config':  
    ensure  => file,  
    mode    => '0600',  
    source   =>  
    'puppet:///modules/sshd/sshd_config',  
    require  => Package['openssh-server'],  
}
```

before and require meta-parameter

# Chaining resources

```
file { '/etc/ssh/sshd_config':
  ensure => file,
  mode   => '0600',
  source  =>
  'puppet:///modules/sshd/sshd_config',
  notify  => Service['sshd'],
}

service { 'sshd':
  ensure     => running,
  enable     => true,
  subscribe =>
  File['/etc/ssh/sshd_config'],
}
```

**notify and subscribe meta-parameter**

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# Variables

- Puppet supports variables like most other languages you may be familiar with. Puppet variables are denoted with \$:

**Ex:**

```
$content = 'some content \n'  
file { '/tmp/testing':  
    content => $content  
}
```

# Arrays

- Puppet allows usage of arrays in various areas.
- Arrays are defined in puppet look like this:  
[ 'one', 'two', 'three' ]

**Ex:**

```
host { 'one.example.com':  
    host_aliases => ['sathya','tech','hyd'],  
    ip => '192.168.100.1',  
    ensure => present,  
}
```

# 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>
```

# 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
}
```