

Use Puppet to install nginx-server

Having installed Puppet we can test it installing nginx and creating a simple html file

We are logged in to the **puppet-master** and we create a module called nginx:

```
cd /etc/puppet/modules/  
mkdir -p /nginx/manifests/  
nano /nginx/manifests/init.pp/  
  
#####
```

```
class nginx {  
  package { 'nginx':  
    ensure => installed,  
  }  
  service {  
    'nginx':  
      ensure => running,  
      enable => true,  
      require => Package['nginx'],  
    }  
  }  
}  
  
#####
```

We are still in the **puppet-master** and we create the testnginx module (we create actually a html-file to test if nginx works good. Of course, if we want, we can write only one init.pp file that is a combination of those two files...)

```
mkdir -p /etc/puppet/modules/testnginx/manifests/  
cd /etc/puppet/modules/testnginx/manifests/  
nano init.pp  
  
#####
```

```
class testnginx {  
  file { ['/var/www/hipupet.html':  
    content => "<html>  
      <head><title>testing puppet</title></head>  
      <body>  
        <b>Hi from Puppet Master!  
      </body> "  
    }  
  }  
}  
  
#####
```

Always on **puppet-master**!

We need to call the file/s we have just created. For this reason we create a site.pp file

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

```
include nginx      <- here we call the modules we created before using the name of the model.  
include testnginx  <- we don't need this include if we have written only one module (init.pp  
file)
```

And one more alternative....

nano /etc/puppet/manifests/puppetnginx.php

```
package{
  'nginx':
    ensure => installed,
}

package{
  'php5-fpm':
    ensure => present,
}

service {
  'nginx':
    ensure => running,
    enable => true,
    require => Package['nginx'],
}

service {
  'php5-fpm':
    ensure => running,
    require => Package['php5-fpm'],
}

#create a virtual host
file { 'vhost-nginx':
  path => '/etc/nginx/sites-available/vhost-nginx',
  ensure => file,
  require => Package['nginx'],
  source => '/etc/puppet/manifests/files/puppethost',
}

file { 'default-nginx-disable':
  path => '/etc/nginx/sites-enabled/default',
  ensure => absent,
  require => Package['nginx'],
}

file { 'vhost-nginx-enable':
  path => '/etc/nginx/sites-enabled/vhost-nginx',
  target => '/etc/nginx/sites-available/vhost-nginx',
  ensure => link,
  notify => Service['nginx'],
  require => [
    File['vhost-nginx'],
    File['default-nginx-disable'],
  ],
}
```

The configuration of the virtual host is in the **/etc/puppet/manifests/files/puppethost** file

```
server {  
    listen 80;  
    server_name _;  
    root /var/www/;  
    index index.php;  
  
    location / {  
        try_files $uri /index.php;  
    }  
  
    location ~ \.php$ {  
        fastcgi_pass 127.0.0.1:9000;  
        fastcgi_index index.php;  
        include fastcgi_params;  
    }  
}
```