

USING LOOPS IN MANIFESTS

ONLYIF

Steps for Puppet Master

Step 1: Change the directory to `/etc/puppet/code/environments/production/manifests`

```
$ cd /etc/puppet/code/environments/production/manifests
```

```
$ sudo nano site.pp
```

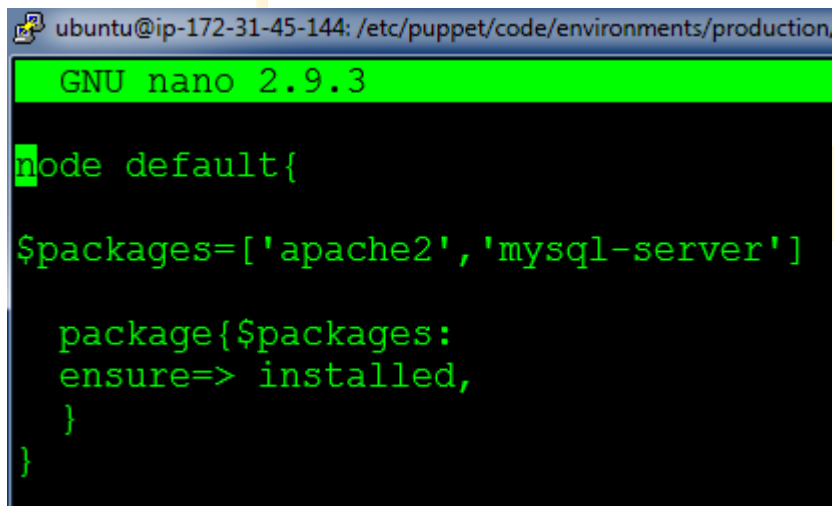
A screenshot of a terminal window showing the nano text editor. The terminal title bar reads "ubuntu@ip-172-31-45-144: /etc/puppet/code/environments/production/manifests". The editor's status bar at the top shows "GNU nano 2.9.3" on the left and "site.pp" on the right. The main editing area is black with a red cursor on the first line. A large, semi-transparent "IntelliPaat" watermark is visible on the right side of the terminal window.

```
ubuntu@ip-172-31-45-144: /etc/puppet/code/environments/production/manifests
GNU nano 2.9.3 site.pp

```

Step 2: Enter the following text:

```
node default{  
  
  $packages=> ['apache2','mysql-server']  
  
  package{$packages:  
  
    ensure=> installed,  
  
  }  
  
}
```

A screenshot of a terminal window showing the nano text editor. The title bar indicates the user is 'ubuntu' at IP '172-31-45-144' in the directory '/etc/puppet/code/environments/production'. The editor shows the same Puppet code as the previous block. A large, semi-transparent 'IntelliPaat' watermark is visible on the right side of the terminal window.

```
ubuntu@ip-172-31-45-144: /etc/puppet/code/environments/production  
GNU nano 2.9.3  
node default{  
  
  $packages=['apache2','mysql-server']  
  
  package{$packages:  
    ensure=> installed,  
  }  
}
```

On Puppet Agent


Step 1: Execute the following command:

```
$ sudo puppet agent --test
```

```
ubuntu@ip-172-31-41-253: ~  
ubuntu@ip-172-31-41-253:~$ sudo puppet agent --test  
Info: Using configured environment 'production'  
Info: Retrieving pluginfacts  
Info: Retrieving plugin  
Info: Retrieving locales  
Info: Caching catalog for ip-172-31-41-253.us-east-2.compute.internal  
Info: Applying configuration version '1549512065'  
Notice: /Stage[main]/Main/Node[default]/Exec[Conditions]/returns: executed successfully  
Notice: Applied catalog in 0.03 seconds  
ubuntu@ip-172-31-41-253:~$
```

Step 2: Verify the installation by going to the browser with Agent's IP address and mysql service status

18.222.197.61



Apache2 Ubuntu Default Page

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

```
ubuntu@ip-172-31-41-253: ~  
ubuntu@ip-172-31-41-253:~$ service mysql status  
● mysql.service - MySQL Community Server  
   Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: en  
   Active: active (running) since Thu 2019-02-07 03:48:41 UTC; 40min ago  
   Main PID: 18678 (mysqld)  
     Tasks: 27 (limit: 1152)  
    CGroup: /system.slice/mysql.service  
            └─18678 /usr/sbin/mysqld --daemonize --pid-file=/run/mysqld/mysqld.pi  
  
Feb 07 03:48:41 ip-172-31-41-253 systemd[1]: Starting MySQL Community Server...  
Feb 07 03:48:41 ip-172-31-41-253 systemd[1]: Started MySQL Community Server.  
lines 1-10/10 (END)
```