

USING CONDITIONS IN MANIFESTS

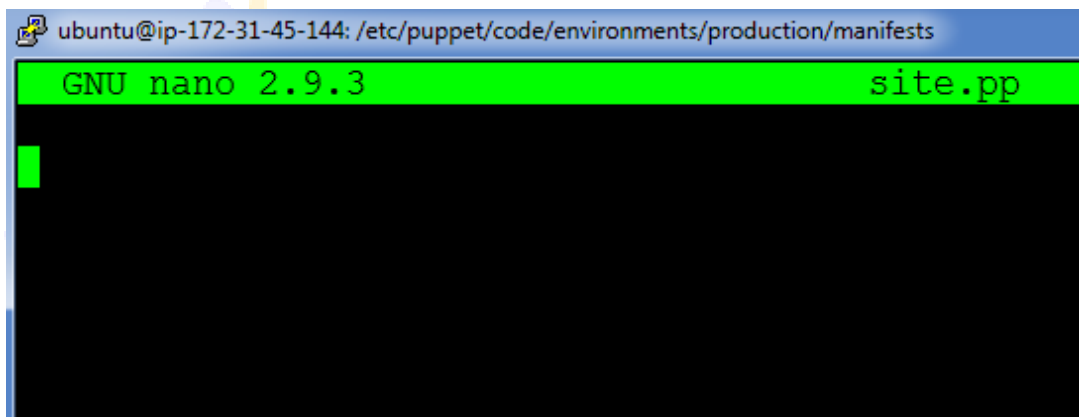
ONLYIF

Steps for Puppet Master

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

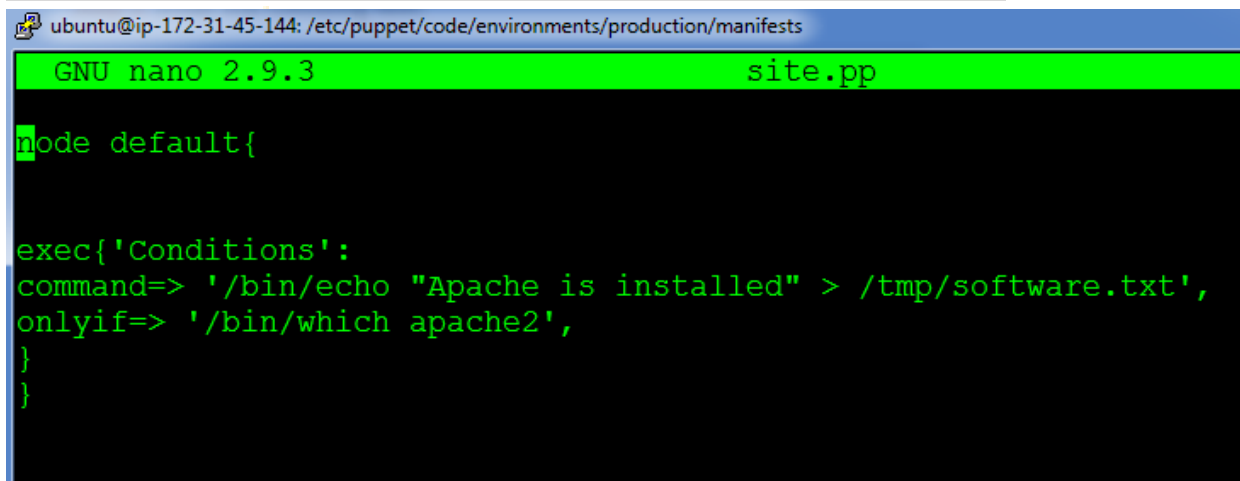
```
$ cd /etc/puppet/code/environments/production/manifests
```

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



Step 2: Enter the following text:

```
node default{  
  
  exec{'Conditions':  
  
    command=> '/bin/echo "Apache is installed" > /tmp/software.txt',  
  
    onlyif=> '/bin/which apache2',  
  
  }  
  
}
```

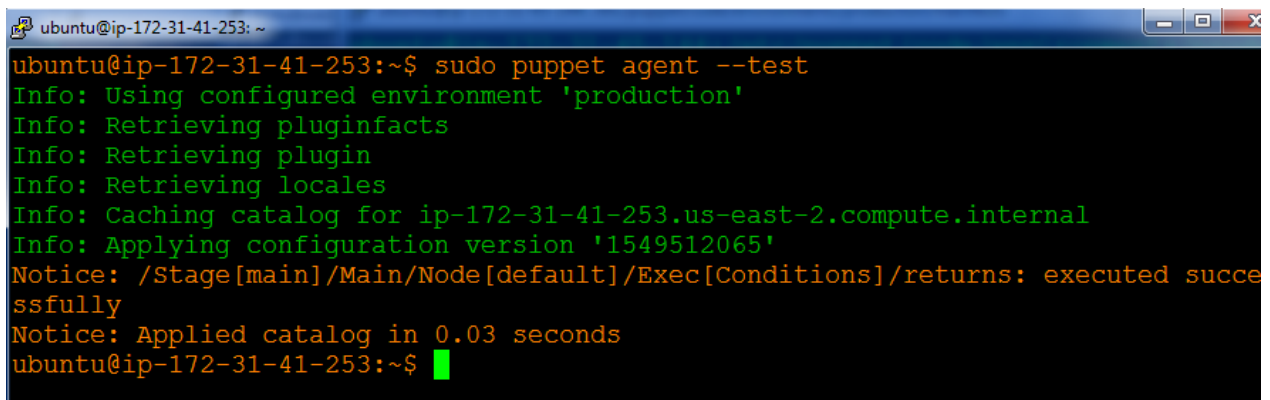


The screenshot shows a terminal window with the title bar 'ubuntu@ip-172-31-45-144: /etc/puppet/code/environments/production/manifests'. The editor is GNU nano 2.9.3, editing file site.pp. The content of the file is the Puppet manifest code shown in the previous block.

On Puppet Agent

Step 1: Execute the following command:

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



The screenshot shows a terminal window with the title bar 'ubuntu@ip-172-31-41-253: ~'. The command 'sudo puppet agent --test' has been executed, resulting in the following output:

```
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 file by going to /tmp/software.txt

```
ubuntu@ip-172-31-41-253: ~  
ubuntu@ip-172-31-41-253:~$ cat /tmp/software.txt  
Apache is installed  
ubuntu@ip-172-31-41-253:~$
```

UNLESS

Steps for Puppet Master

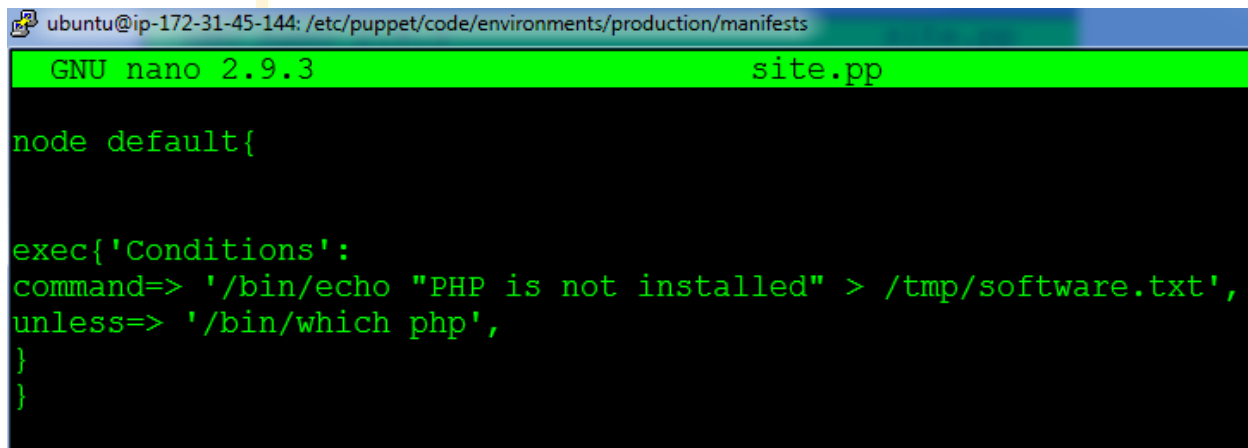
Step 1: Change the directory to /etc/puppet/code/environments/production/manifests

```
$ cd /etc/puppet/code/environments/production/manifests  
$ sudo nano site.pp
```

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

Step 2: Enter the following text:

```
node default{  
  
  exec{'Conditions':  
  
    command=> '/bin/echo "php is not installed" > /tmp/software.txt',  
  
    unless=> '/bin/which php',  
  
  }  
  
}
```

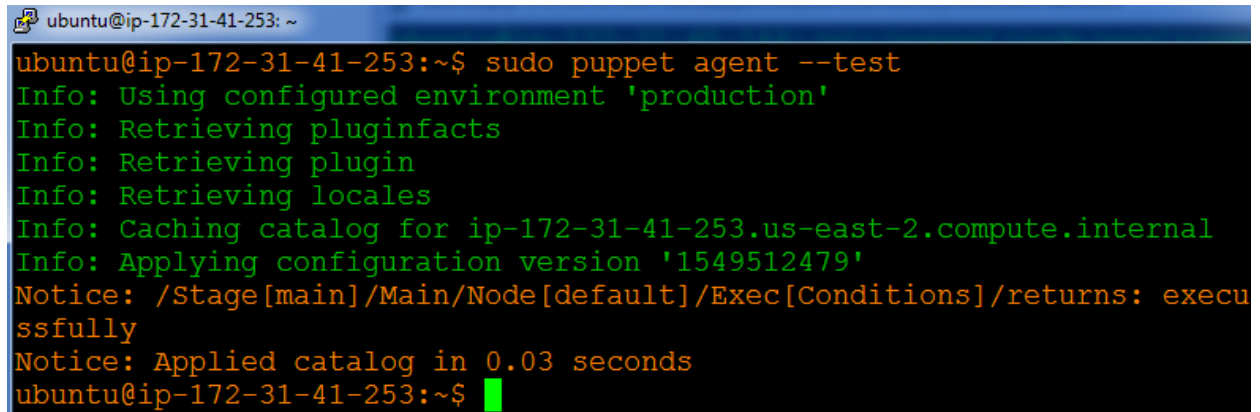
A screenshot of a terminal window showing the nano text editor. The terminal title bar indicates the user is 'ubuntu' on IP '172-31-45-144' at the path '/etc/puppet/code/environments/production/manifests'. The editor header shows 'GNU nano 2.9.3' and the filename 'site.pp'. The content of the file is a Puppet node definition for 'default' with an 'exec' block containing a command to echo a message and an 'unless' condition to check for PHP.

```
ubuntu@ip-172-31-45-144: /etc/puppet/code/environments/production/manifests  
GNU nano 2.9.3 site.pp  
  
node default{  
  
  exec{'Conditions':  
  
    command=> '/bin/echo "PHP is not installed" > /tmp/software.txt',  
  
    unless=> '/bin/which php',  
  
  }  
  
}
```

Steps for Puppet Agent

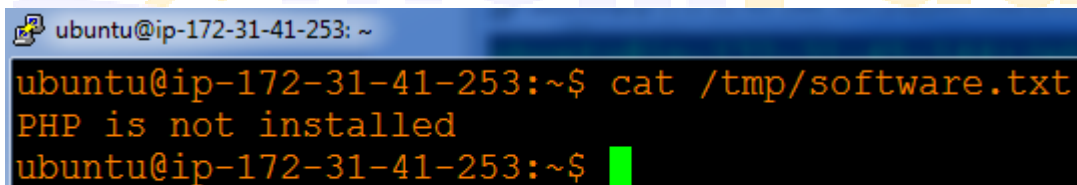
Step 1: Execute the following command:

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

A terminal window screenshot showing the output of the command 'sudo puppet agent --test'. The output includes information about the environment, plugin retrieval, catalog caching, and successful application of the configuration.

```
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 '1549512479'  
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 file by going to /tmp/software.txt

A terminal window screenshot showing the output of the command 'cat /tmp/software.txt'. The output is 'PHP is not installed'.

```
ubuntu@ip-172-31-41-253: ~  
ubuntu@ip-172-31-41-253:~$ cat /tmp/software.txt  
PHP is not installed  
ubuntu@ip-172-31-41-253:~$
```