



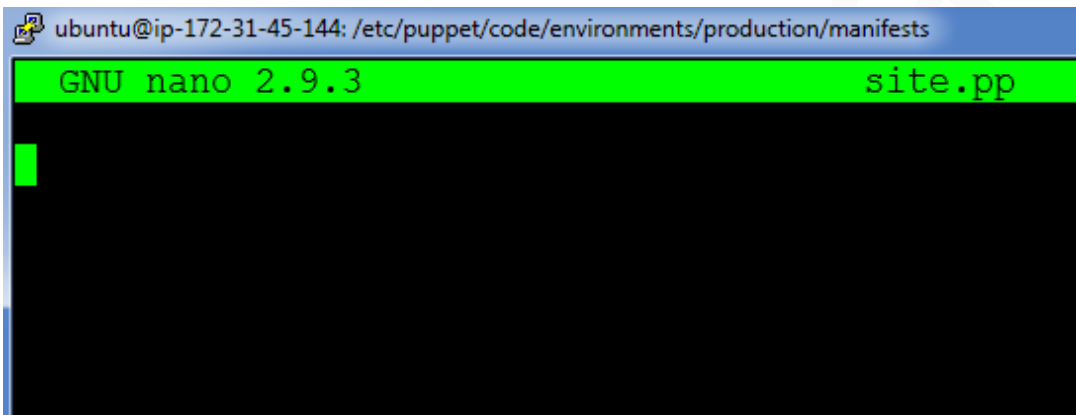
## **Module 4: Hands-On: Using Conditions in Manifest**

“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',  
}  
}
```

```
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 "Apache is installed" > /tmp/software.txt',
  onlyif=> '/bin/which apache2',
  }
}
```

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

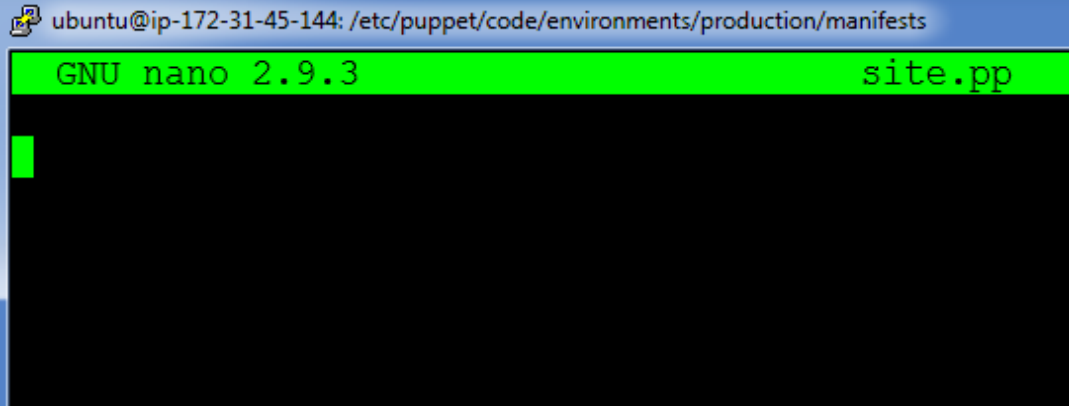
```
ubuntu@ip-172-31-41-253: ~
ubuntu@ip-172-31-41-253:~$ cat /tmp/software.txt
Apache is installed
ubuntu@ip-172-31-41-253:~$ █
```

## “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
```

**Step 2:** Enter the following text:

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

```
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

```
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:~$
```

## Code for Installing NGINX if Apache2 is not installed:

```
node default{ exec{'apachedocker':  
command=> 'apt-get install nginx -y', path  
=>'/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin  
:/sbin:/bin:/usr/games:/usr/local/games',  
unless=> '/bin/which apache2',  
}  
}
```