

## Experiment No.1.9

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**Semester:** III

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### 1. Aim/Overview of the practical:

- Create Manifest file in Puppet Server to install http.
- Check it in Puppet Agent machine to start the services of http.

### 2. Steps for practical: (a)

**Step 1 :** Once Puppet-Master and Puppet-Slave connection is configured, Go to Puppet-Master machine.

**Step 2 :** Create a manifest file site.pp

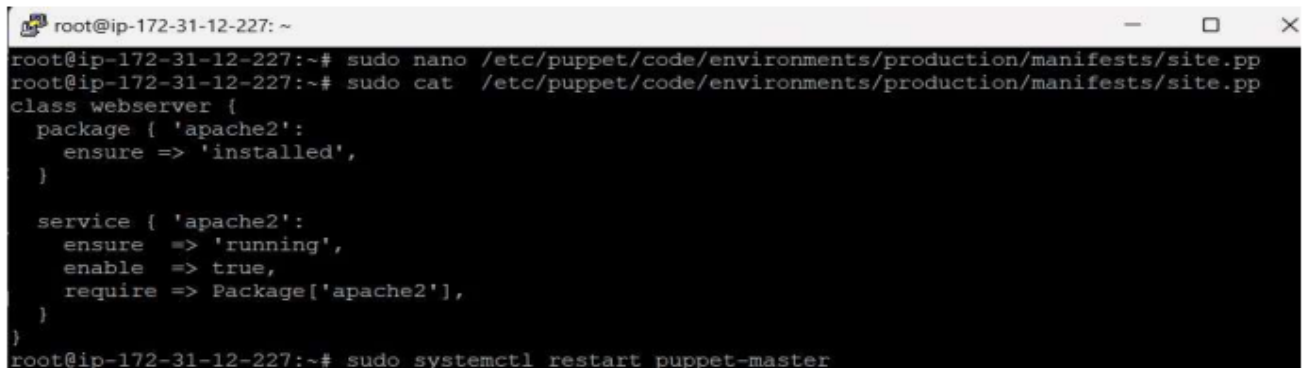
```
sudo nano /etc/puppet/code/environments/production/manifests/site.pp
class webserver{
    package { ['apache2': ensure => 'installed']}
    service { ['apache2': ensure => 'running',
               enable => true,
               require => Package['apache2']]
}
```

**Step 3 :** Then check the file by opening it.

**Step 4 :** Manifest file is created successfully.

**Step 5 :** Now restart the puppet-master services.

```
sudo systemctl restart puppet-master
```



```
root@ip-172-31-12-227: ~
root@ip-172-31-12-227:~# sudo nano /etc/puppet/code/environments/production/manifests/site.pp
root@ip-172-31-12-227:~# sudo cat /etc/puppet/code/environments/production/manifests/site.pp
class webserver {
  package { ['apache2':
    ensure => 'installed',
  ]
}

service { ['apache2':
  ensure => 'running',
  enable => true,
  require => Package['apache2'],
]
}
root@ip-172-31-12-227:~# sudo systemctl restart puppet-master
```

### 3. Steps for practical: (b)

**Step 1 :** After creating the manifest file on Puppet-Master machine, Now go to Puppet-Slave machine for start services of http manifest file.

**Step 2 :** Run `sudo puppet agent -test`.

```
root@ip-172-31-0-192: /tmp
root@ip-172-31-0-192:~# cd /tmp
root@ip-172-31-0-192:/tmp# sudo puppet agent --test
Info: Using configured environment 'production'
Info: Retrieving pluginfacts
Info: Retrieving locales
Info: Caching catalog for ip-172-31-0-192.ap-south-1.compute.internal
Info: Applying configuration version '1699622750'
/usr/lib/ruby/vendor_ruby/puppet/file_system/uniquefile.rb:126: warning: $SAFE will become a normal global variable in Ruby 3.0
/usr/lib/ruby/vendor_ruby/puppet/file_system/uniquefile.rb:126: warning: $SAFE will become a normal global variable in Ruby 3.0
Notice: Applied catalog in 0.01 seconds
/usr/lib/ruby/vendor_ruby/puppet/file_system/uniquefile.rb:126: warning: $SAFE will become a normal global variable in Ruby 3.0
/usr/lib/ruby/vendor_ruby/puppet/util.rb:461: warning: URI.escape is obsolete
/usr/lib/ruby/vendor_ruby/puppet/file_system/uniquefile.rb:126: warning: $SAFE will become a normal global variable in Ruby 3.0
```

**Step 3 :** Now to any web browser and type the ipv4 public address of your Puppet-Slave machine (in my case it is 62.0.32.34).



**Step 4 :** Manifest file services are configured and started successfully.