Experiment No. 1.9

Student Name: Parvinder Singh   **UID:** 22MCC20043
Branch: MCA - CCD   **Section/Group:** 22MCD-1/ Grp B
Semester: III
Subject Name: DevOps Process Automation Lab   **Subject Code:** 22CAP-745

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. Code for experiment/practical:

A. Create Manifest file in Puppet Server to install http

- Once Puppet-Master and Puppet-Slave connection is configured, Go to Puppet-Master machine.
- 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'],
       }
}
```

  Save it. Ctrl+O, then Enter, then Ctrl+X.

- Then check the file by opening it.
  # sudo nano /etc/puppet/code/environments/production/manifests/site.pp

- Manifest file is created successfully
- 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
```

B. Check it in Puppet Agent machine to start the services of http

- After creating the manifest file on Puppet-Master machine, Now go to Puppet-Slave machine for start services of http manifest file.
- 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 '1699622790'
/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
```

- 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)
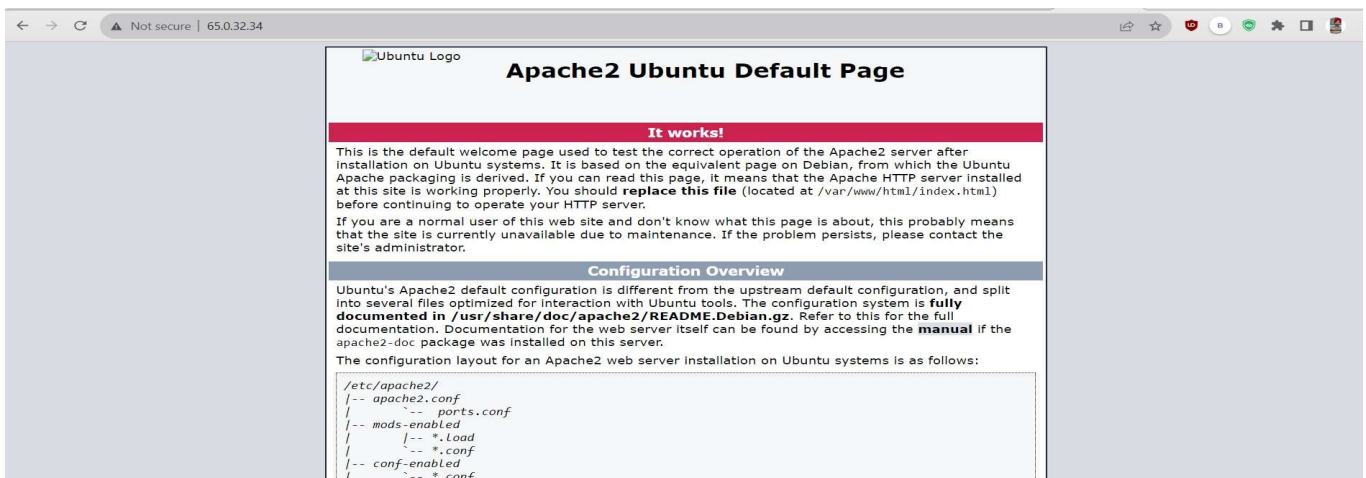
- Manifest file services are configured and started successfully.