



Experiment 3.2

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1. Aim/Overview of the practical:

After creating a Agent node, Create manifest file to install Apache HTTP in agent node.

2. Code for experiment/practical:

To install Apache HTTP on an agent node using Puppet, you'll need to create a manifest file for that node. Let's assume your agent node has the hostname "agent-node" and you have already set up the Puppet master and agent communication.

Here are the steps:

Step 1: Create Manifest for Agent Node

1. **Create a Manifest File:** Create a new manifest file for your agent node. Let's name it **site.pp** and assume your agent node has the hostname "agent-node".

File: /etc/puppetlabs/code/environments/production/manifests/site.pp

```
node 'agent-node' {
  include httpd
}
```

This manifest includes the **httpd** class for the specific node.

2. **Apply Manifest:** On your Puppet master machine, apply the manifest to trigger the configuration on the agent node:

sudo puppet agent -t





This command initiates the Puppet run on the agent node, applying the configurations specified in the manifest.

Step 2: Verify Installation on Agent Node

- 1. **Check Apache Installation:** Log in to your agent node and verify that Apache HTTP server is installed and running:
 - sudo systemctl status httpd
 - Ensure that the service is running and enabled.
- 2. **Verify Apache Configuration:** Check the Apache configuration files on the agent node to ensure that they reflect the desired state specified in your Puppet manifest.

Notes:

- Ensure that your Puppet master and agent are properly configured, and the agent node is communicating with the Puppet master.
- The paths and filenames mentioned in the examples are based on typical Puppet directory structures. Adjust them based on your Puppet setup.
- If you encounter issues, check the Puppet agent logs on the agent node for error messages:

sudo cat /var/log/puppetlabs/puppet/puppet.log