**Install Puppet 7 Server and Agent on Amazon Linux 2**

* Puppet is having Master Slave Configuration

1. On Master
   1. Installation on Amazon Linux 2
      1. sudo yum update
      2. sudo rebot
   2. Adding the Puppet Repository (version 7.18)
      1. sudo rpm -Uvh <https://yum.puppet.com/puppet7-release-el-7.noarch.rpm>
   3. Install Puppet server
      1. sudo yum install puppetserver -y
   4. Set the Hostname and Logout
      1. sudo hostnamectl set-hostname puppet.example.com –static
      2. sudo hostnamectl set-hostname puppet.example.com –transient
      3. logout
   5. Then add server name on host file (Location:- /etc/hosts)
      1. sudo vi /etc/hosts

Example :- 192.168.204.146 puppet.example.com puppet

**Add all the agent’s**

* 1. Login and confirm the host configuration
     1. Hostnamectl
  2. Install Chrony NTP
     1. sudo yum -y install chrony
     2. sudo systemctl enable --now chronyd
     3. sudo timedatectl set-timezone Africa/Nairobi --adjust-system-clock
     4. sudo timedatectl set-ntp yes
  3. Then confirm date and time is correctly configured
     1. Timedatectl
  4. Edit the puppet config file
     1. [server]

vardir = /opt/puppetlabs/server/data/puppetserver

logdir = /var/log/puppetlabs/puppetserver

rundir = /var/run/puppetlabs/puppetserver

pidfile = /var/run/puppetlabs/puppetserver/puppetserver.pid

codedir = /etc/puppetlabs/code

dns\_alt\_names = puppet,puppet.example.com,puppet01

* + 1. [main]

certname = puppet.example.com

server = puppet.example.com

environment = production

* 1. Generate the CA certificate and restart the service
     1. puppetserver ca setup
     2. systemctl enable --now puppetserver
     3. systemctl status puppetserver

1. On Agent
   1. Install the Agent and Restart the service
      1. rpm -ivh <https://yum.puppetlabs.com/puppet7-release-el-7.noarch.rpm>
      2. yum -y install puppet
      3. systemctl enable --now puppet
      4. systemctl status puppet
   2. Then add server name on host file (Location:- /etc/hosts)
      1. sudo vi /etc/hosts

Example :- 192.168.204.146 puppet.example.com puppet

* 1. Edit the puppet config file
     1. [main]

certname = server1

server = puppet.example.com

environment = production

* 1. Examine the Agent-Puppet Master connection
     1. puppet agent --test --ca\_server=puppet.example.com

1. On Master
   1. accept certificate from Puppet agent
      1. puppetserver ca list

Example : (This of key will show)

Requested Certificates:

server1 (SHA256) 01:9E:53:C7:31:3A:A4:9C:91:5A:CE:86:6F:60:02:14:97:6B:95:3A:F8:C9:93:DF:F4:DF:CA:05:9B:7E:C6:C

* 1. Then sign the certificate:
     1. puppetserver ca sign --certname <server1>
  2. Create the Manifest

Example :

* + 1. vi /etc/puppetlabs/code/environments/production/manifests/createuser.pp
    2. user { 'puppetuser':

ensure => present,

uid => '1020',

shell => '/bin/bash',

home => '/home/puppetuser',

managehome => true,

}

1. systemctl restart puppet
   1. Apply the manifest
      1. puppet apply /etc/puppetlabs/code/environments/production/manifests/createuser.pp