

# Puppet installation and execution on Linux AMI

## Prerequisites :

1. Create Amazon Linux AMI EC2 instances for Puppet master and agents.
2. Configure a security group to ensure that these ports are open on your new puppet master instance.

TCP 8140 - Agents will talk to the master on this port

TCP 22 - To login to the server/instance using SSH

## Installing Puppet :

Install Puppet on the Puppet Master Server –

On your puppet master node run following command.

```
$ sudo yum install puppet-server
```

This will install Puppet and an init script (/etc/init.d/puppetmaster) for running a puppet master server.

When the installation is done, set the Puppet server to automatically start on boot and turn it on.

```
$ sudo chkconfig puppetmaster on
```

```
$ sudo service puppetmaster start
```

Install Puppet on Agent Nodes –

On your other nodes, run following command

```
$ sudo yum install puppet
```

This will install Puppet and an init script (/etc/init.d/puppet) for running the puppet agent daemon.

When the installation finishes, make sure that Puppet will start after boot and turn it on.

```
$ sudo chkconfig puppet on
```

```
$ sudo service puppet start
```

*Note : “At here Puppet is installed and running.”*

## Configuring Puppet :

Step 1 : During installation, you'll also need to take note of your instance's fqdn and IP address –

Use this command to find fully qualified hostname (fqdn) of the instance/server :

```
$ hostname -f
```

Use this command to find ip address of the instance/server :

```
$ hostname -i
```

Step 2 : On puppet agent nodes –

When you create the puppet master's certificate, By default all puppet agents will try to find a master by name **puppet**. So you must add an entry in **DNS** or in **/etc/hosts** file as :

```
<IP-address-of-puppet-server> puppet
```

So that **puppet** name should be resolved to your puppet master IP address.

Now restart puppet service on agents :

```
$ sudo service puppet restart
```

### Step 3 : Sign the Node's Certificate –

In an agent/master deployment, a master must approve a certificate request for each agent node before that node can fetch configurations. Agent nodes will request certificates the first time they attempt to run.

We need to tell our Puppet agent to contact with the Puppet master. Run this command on agent node:

```
$ sudo puppet agent --test
```

You may see something like the following output. Don't panic, this is because the agent node is still not verified on the Puppet master server.

Exiting; failed to retrieve certificate and waitforcert is disabled  
Now go back to your puppet master server and check certificate signing requests:

```
# puppet cert list
```

You will see a list of all the agent nodes that requested for certificate signing from your puppet master. Find the hostname of your agent node and sign it using the following command .

```
# puppet cert sign agent-node
```

*Note : 'agent-node' is the fqdn of your agent node.*