

PUPPET INSTALLATION ON UBUNTU

Installing Puppet Master

Step 1: Run the following commands for installing Puppet Master

```
$ sudo apt-get update

$ sudo apt-get install wget

$ wget https://apt.puppetlabs.com/puppet-release-bionic.deb

$ sudo dpkg -i puppet-release-bionic.deb

$ sudo apt-get update

$ apt policy puppet master

$ sudo apt-get install puppet-master
```

Installing Puppet Agent

Step 2: Run the following commands for installing Puppet Agent

```
$ sudo apt-get update

$ sudo apt-get install wget

$ wget https://apt.puppetlabs.com/puppet-release-bionic.deb

$ sudo dpkg -i puppet-release-bionic.deb

$ sudo apt-get update

$ apt policy puppet master

$ sudo apt-get install puppet
```



Configuring Puppet Master

Step 1: Add the following lines in the puppet-master configuration file

```
$ sudo nano /etc/default/puppet-master

JAVA_ARGS="-Xms512m Xmx512m" //Add this Line

$ sudo systemctl restart puppet-master
```

```
# Defaults for puppetmaster - sourced by /etc/init.d/puppet-master

# Start puppetmaster on boot?
START=yes

JAVA_ARGS="-Xms512m Xmx512m"
# Startup options.
DAEMON_OPTS=""
```

Step 2: Next open port 8140 on the Puppet Master's firewall

\$ sudo ufw allow 8140/tcp

```
ubuntu@ip-172-31-45-144:~$ sudo ufw allow 8140/tcp
Rules updated
Rules updated (v6)
ubuntu@ip-172-31-45-144:~$
```

```
ubuntu@ip-172-31-45-144:~

ubuntu@ip-172-31-45-144:~$ sudo systemctl restart puppet-master
ubuntu@ip-172-31-45-144:~$
```



Step 3: Make changes to the hosts file which exists in /etc/hosts. And add the Puppet Master IP address along with the name "puppet"

\$ sudo nano /etc/hosts

```
GNU nano 2.9.3 /etc/hosts

127.0.0.1 localhost
18.220.115.91 puppet
# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
ff02::3 ip6-allhosts
```

Step 4: Create the following directory path:

\$ sudo mkdir -p /etc/puppet/code/environments/production/manifests

```
    □ ubuntu@ip-172-31-45-144:~

ubuntu@ip-172-31-45-144:~$ sudo mkdir -p /etc/puppet/code/environments/productio n/manifests

ubuntu@ip-172-31-45-144:~$

ubuntu@ip-172-31-45-144:~$
```



Configuring Puppet Slave

Step 1: Add the entry for Puppet Master in /etc/hosts

```
GNU nano 2.9.3 /etc/hosts

127.0.0.1 localhost.
18.220.115.91 puppet
# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
ff02::3 ip6-allhosts
```

Step 2: Finally start the Puppet agent by using the following command. Also, enable the service, so that it starts when the computer starts

```
$ sudo systemctl start puppet
$ sudo systemctl enable puppet
```

```
ubuntu@ip-172-31-41-253:~$ sudo systemctl start puppet
ubuntu@ip-172-31-41-253:~$ sudo systemctl enable puppet
Synchronizing state of puppet.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable puppet
ubuntu@ip-172-31-41-253:~$
```



On Master

Step 1: Type the following command,

\$ sudo puppet cert list

ubuntu@ip-172-31-45-144:~

ubuntu@ip-172-31-45-144:~\$ sudo puppet cert list

"ip-172-31-41-253.us-east-2.compute.internal" (SHA256) 1F:2A:14:36:D0:4D:E0:40:2B:DA:BC:9F:E0:81:9E:01:00:0F:16:09:A8:6B:FA:30:CF:8B:EA:0D:4F:02:4D:1B

ubuntu@ip-172-31-45-144:~\$

Step 2: Finally, sign the listed certificate using the following command:

\$ sudo puppet cert sign --all

```
ubuntu@ip-172-31-45-144:~$ sudo puppet cert sign --all
Signing Certificate Request for:
   "ip-172-31-41-253.us-east-2.compute.internal" (SHA256) 1F:2A:14:36:D0:4D:E0:40
:2B:DA:BC:9F:E0:81:9E:01:00:0F:16:09:A8:6B:FA:30:CF:8B:EA:0D:4F:02:4D:1B
Notice: Signed certificate request for ip-172-31-41-253.us-east-2.compute.intern
al
Notice: Removing file Puppet::SSL::CertificateRequest ip-172-31-41-253.us-east-2.compute.internal at '/var/lib/puppet/ssl/ca/requests/ip-172-31-41-253.us-east-2.compute.internal.pem'
ubuntu@ip-172-31-45-144:~$
```

You are now ready to use the Puppet cluster!