



PUPPET INSTALLATION

DevOps Certification Training

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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

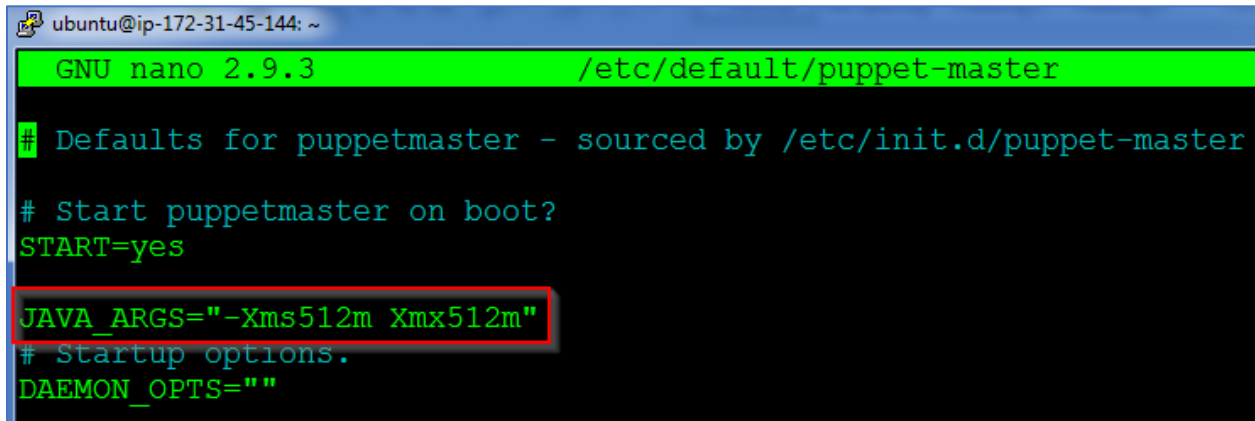
Step 2: Run the following commands for installing Puppet Agent

```
$ 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
```

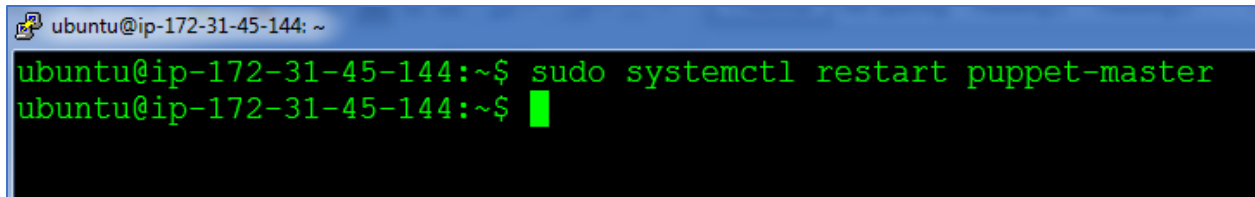
Configuring Puppet Master

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
```



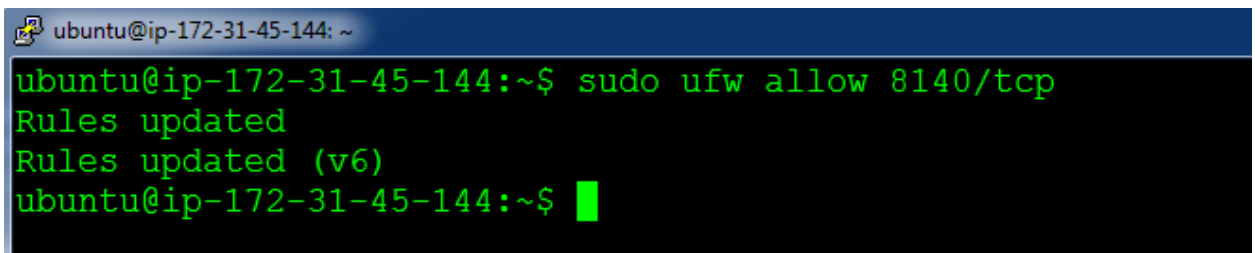
```
ubuntu@ip-172-31-45-144: ~  
GNU nano 2.9.3 /etc/default/puppet-master  
# Defaults for puppetmaster - sourced by /etc/init.d/puppet-master  
# Start puppetmaster on boot?  
START=yes  
JAVA_ARGS="-Xms512m Xmx512m"  
# Startup options.  
DAEMON_OPTS=""
```



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

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

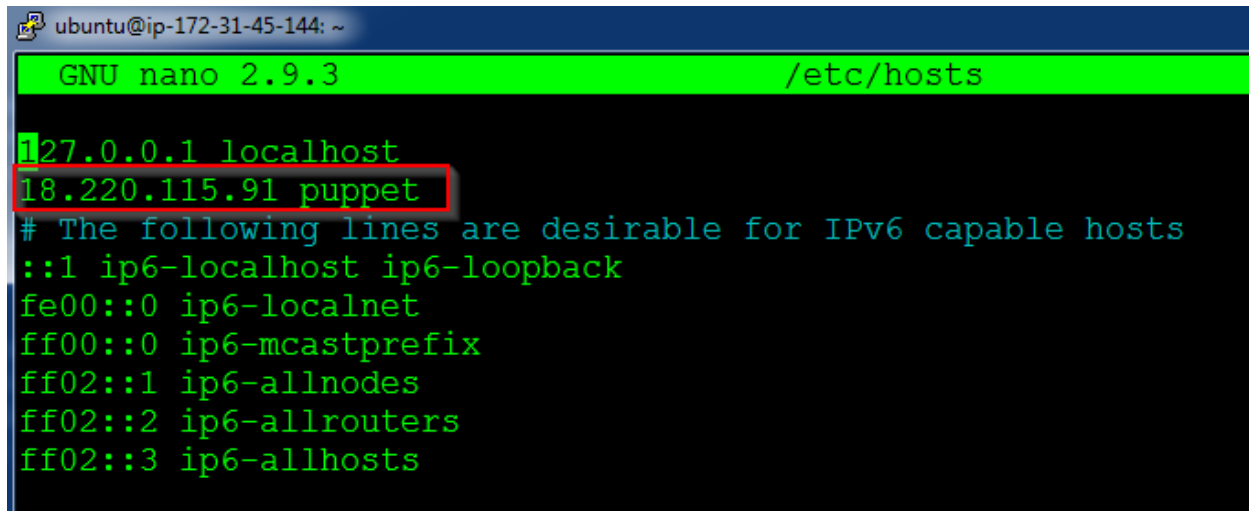
```
$ sudo ufw allow 8140/tcp
```



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



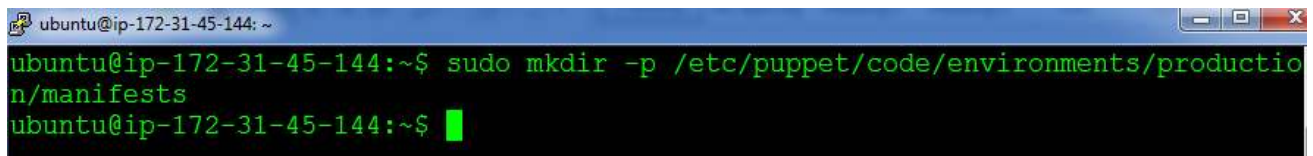
The screenshot shows a terminal window with the nano text editor open at the file /etc/hosts. The header bar of the editor is green and displays 'GNU nano 2.9.3' and '/etc/hosts'. The file content is as follows:

```
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
```

The line '18.220.115.91 puppet' is highlighted with a red rectangular box.

Step 4: Create the following directory path:

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

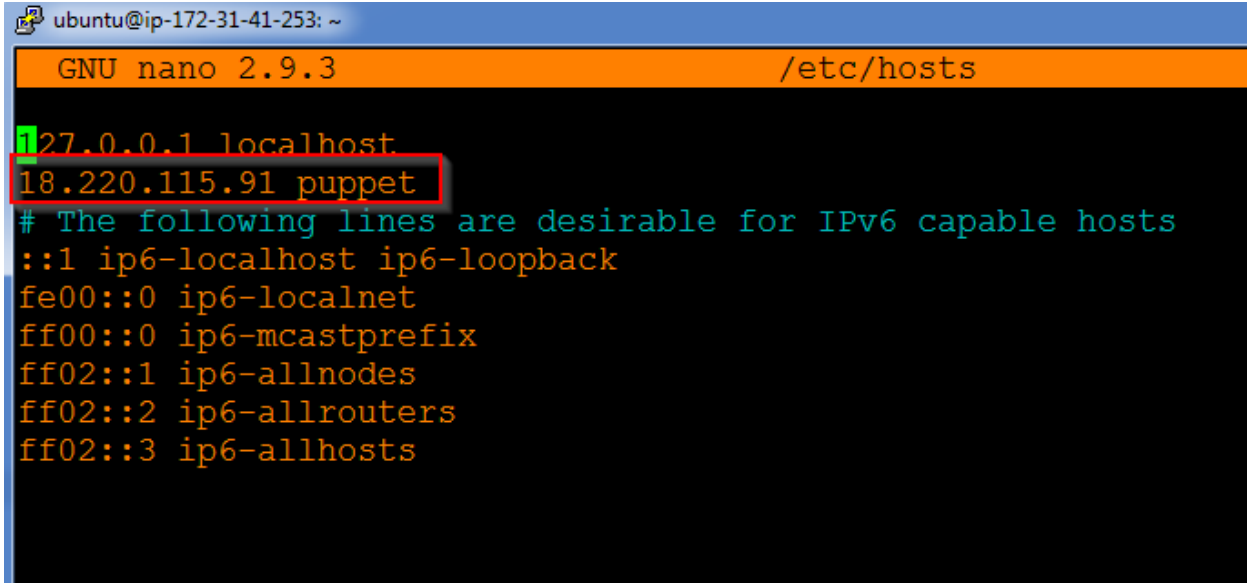


The screenshot shows a terminal window where the command to create the directory path has been executed successfully. The prompt is 'ubuntu@ip-172-31-45-144: ~\$'.

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

Configuring Puppet Slave

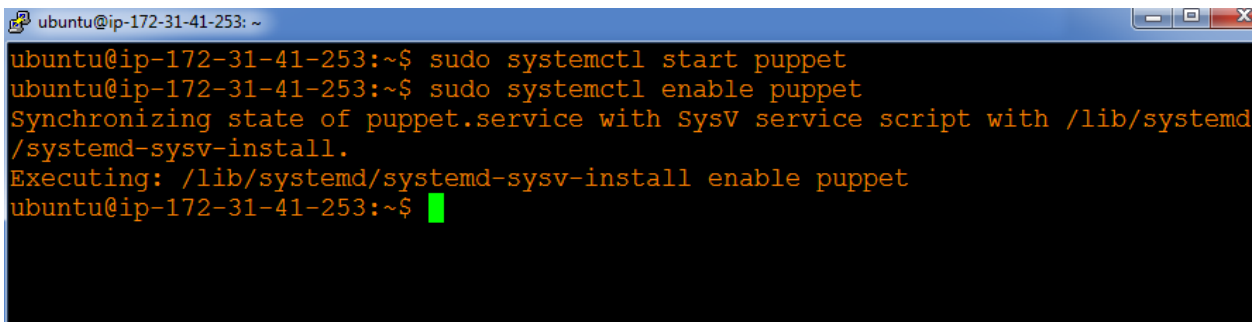
Step 1: Add the entry for Puppet Master in /etc/hosts



```
ubuntu@ip-172-31-41-253: ~  
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
```

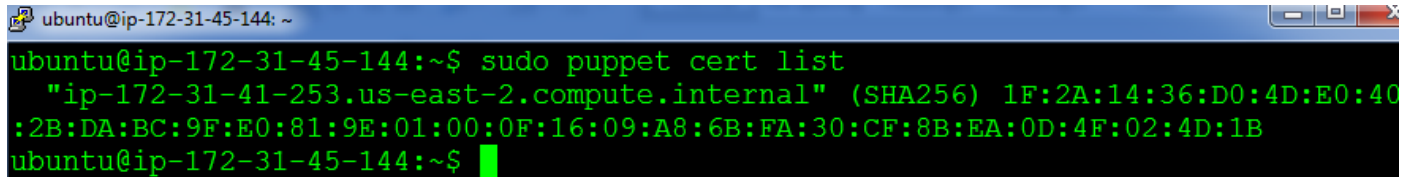


```
ubuntu@ip-172-31-41-253: ~  
ubuntu@ip-172-31-41-253:~$ sudo systemctl start puppet  
ubuntu@ip-172-31-41-253:~$ sudo systemctl enable puppet  
Synchronizing state of puppet.service with SysV service script with /lib/systemd  
/systemd-sysv-install.  
Executing: /lib/systemd/systemd-sysv-install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

On Master

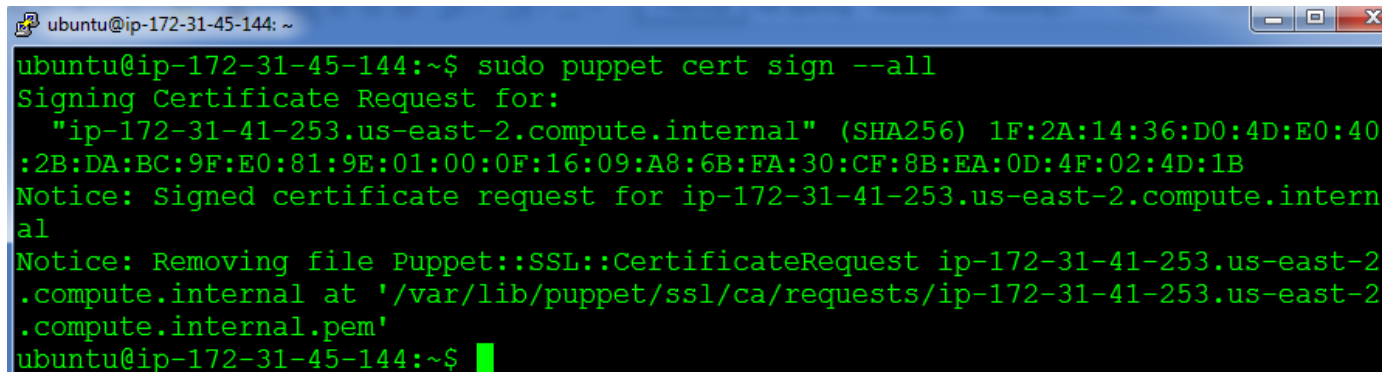
Step 1: Type the following command,

```
$ sudo puppet cert list
```

A terminal window screenshot showing the command 'sudo puppet cert list' being executed. The output displays a certificate for 'ip-172-31-41-253.us-east-2.compute.internal' with its SHA256 fingerprint. The terminal title is 'ubuntu@ip-172-31-45-144: ~' and the prompt is 'ubuntu@ip-172-31-45-144:~\$'.

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

```
$ sudo puppet cert sign --all
```

A terminal window screenshot showing the command 'sudo puppet cert sign --all' being executed. The output shows the signing process for the certificate request, including the removal of the request file from the Puppet::SSL::CertificateRequest directory. The terminal title is 'ubuntu@ip-172-31-45-144: ~' and the prompt is 'ubuntu@ip-172-31-45-144:~\$'.

You are now ready to use the Puppet cluster!