

- ✚ Install Linux with below configuration
  - 3 to 4 GB RAM
  - 35 GB space
  - 2 Processor
- ✚ Perform Yum Configuration and ruby installation
- ✚ Download RPM of PE – Puppet Enterprise based on linux version
  - [https://pm.puppetlabs.com/puppet-enterprise/2017.1.1/puppet-enterprise-2017.1.1-el-6-x86\\_64.tar.gz](https://pm.puppetlabs.com/puppet-enterprise/2017.1.1/puppet-enterprise-2017.1.1-el-6-x86_64.tar.gz)
- ✚ Once download is done keep this in out /var/ftp/pub directory
  - `cp -r * /var/ftp/pub`
- ✚ since download is tar file we need to unzip it
  - `cd /var/ftp/pub (ls -ltr)`

```

root@localhost: /var/ftp/pub
File Edit View Search Terminal Help
-rw-r--r-- 1 root root 12568464 Mar 25 16:12 xulrunner-10.0.12-1.el6_3.i686.rpm
-rw-r--r-- 1 root root 12231448 Mar 25 16:12 xulrunner-10.0.12-1.el6_3.x86_64.rpm
-rw-r--r-- 1 root root 20768 Mar 25 16:12 xvattr-1.3-18.el6.x86_64.rpm
-rw-r--r-- 1 root root 140128 Mar 25 16:12 xz-4.999.9-0.3.beta.20091007git.el6.x86_64.rpm
-rw-r--r-- 1 root root 40656 Mar 25 16:12 xz-devel-4.999.9-0.3.beta.20091007git.el6.i686.rpm
-rw-r--r-- 1 root root 40632 Mar 25 16:12 xz-devel-4.999.9-0.3.beta.20091007git.el6.x86_64.rpm
-rw-r--r-- 1 root root 96552 Mar 25 16:12 xz-libs-4.999.9-0.3.beta.20091007git.el6.i686.rpm
-rw-r--r-- 1 root root 91624 Mar 25 16:12 xz-libs-4.999.9-0.3.beta.20091007git.el6.x86_64.rpm
-rw-r--r-- 1 root root 15844 Mar 25 16:12 xz-lzma-compat-4.999.9-0.3.beta.20091007git.el6.x86_64.rpm
-rw-r--r-- 1 root root 27296 Mar 25 16:12 yajl-1.0.7-3.el6.i686.rpm
-rw-r--r-- 1 root root 27360 Mar 25 16:12 yajl-1.0.7-3.el6.x86_64.rpm
-rw-r--r-- 1 root root 797032 Mar 25 16:12 yelp-2.28.1-13.el6_2.x86_64.rpm
-rw-r--r-- 1 root root 53004 Mar 25 16:12 ypbind-1.20.4-30.el6.x86_64.rpm
-rw-r--r-- 1 root root 133040 Mar 25 16:12 ypserv-2.19-26.el6.x86_64.rpm
-rw-r--r-- 1 root root 66840 Mar 25 16:12 yp-tools-2.9-12.el6.x86_64.rpm
-rw-r--r-- 1 root root 1019168 Mar 25 16:12 yum-3.2.29-40.el6.noarch.rpm
-rw-r--r-- 1 root root 27240 Mar 25 16:12 yum-metadata-parser-1.1.2-16.el6.x86_64.rpm
-rw-r--r-- 1 root root 25124 Mar 25 16:12 yum-plugin-aliases-1.1.30-14.el6.noarch.rpm
-rw-r--r-- 1 root root 28496 Mar 25 16:12 yum-plugin-changelog-1.1.30-14.el6.noarch.rpm
-rw-r--r-- 1 root root 20552 Mar 25 16:12 yum-plugin-downloadonly-1.1.30-14.el6.noarch.rpm
-rw-r--r-- 1 root root 38460 Mar 25 16:12 yum-plugin-security-1.1.30-14.el6.noarch.rpm
-rw-r--r-- 1 root root 25200 Mar 25 16:12 yum-plugin-tmprepo-1.1.30-14.el6.noarch.rpm
-rw-r--r-- 1 root root 30052 Mar 25 16:12 yum-plugin-verify-1.1.30-14.el6.noarch.rpm
-rw-r--r-- 1 root root 27720 Mar 25 16:12 yum-plugin-versionlock-1.1.30-14.el6.noarch.rpm
-rw-r--r-- 1 root root 32220 Mar 25 16:12 yum-presto-0.6.2-1.el6.noarch.rpm
-rw-r--r-- 1 root root 79516 Mar 25 16:12 yum-rhn-plugin-0.9.1-43.el6.noarch.rpm
-rw-r--r-- 1 root root 103244 Mar 25 16:12 yum-utils-1.1.30-14.el6.noarch.rpm
-rw-r--r-- 1 root root 22664 Mar 25 16:12 zd1211-firmware-1.4-4.el6.noarch.rpm
-rw-r--r-- 1 root root 2766888 Mar 25 16:12 zenity-2.28.0-1.el6.x86_64.rpm
-rw-r--r-- 1 root root 265860 Mar 25 16:12 zip-3.0-1.el6.x86_64.rpm
-rw-r--r-- 1 root root 74336 Mar 25 16:12 zlib-1.2.3-29.el6.i686.rpm
-rw-r--r-- 1 root root 74620 Mar 25 16:12 zlib-1.2.3-29.el6.x86_64.rpm
-rw-r--r-- 1 root root 45052 Mar 25 16:12 zlib-devel-1.2.3-29.el6.i686.rpm
-rw-r--r-- 1 root root 45040 Mar 25 16:12 zlib-devel-1.2.3-29.el6.x86_64.rpm
-rw-r--r-- 1 root root 2238156 Mar 25 16:12 zsh-4.3.10-5.el6.x86_64.rpm
drwxr-xr-x 2 root root 4096 Mar 25 16:22 repodata
-rw-r--r-- 1 root root 390855108 Mar 25 16:39 puppet-enterprise-2017.1.1-el-6-x86_64.tar.gz
-rw-r--r-- 1 root root 210188 Mar 25 16:39 rubygems-1.3.7-2.3.noarch.rpm
[root@puppet_enterprise pub]#

```

- `tar xvf puppet-enterprise-2017.1.1-el-6-x86_64.tar.gz`

```

root@localhost:~# tar xvf puppet-enterprise-2017.1.1-el-6-x86_64.tar.gz
puppet-enterprise-2017.1.1-el-6-x86_64/VERSION
puppet-enterprise-2017.1.1-el-6-x86_64/LICENSE.txt
puppet-enterprise-2017.1.1-el-6-x86_64/puppet-enterprise-installer
puppet-enterprise-2017.1.1-el-6-x86_64/puppet-enterprise-uninstaller
puppet-enterprise-2017.1.1-el-6-x86_64/README.markdown
puppet-enterprise-2017.1.1-el-6-x86_64/packages/bootstrap-metadata
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64-package-versions.json
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-activevmq-2017.1.5.14.3-2.pe.el6.noarch.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-bundler-2017.1.1.8.2-1.pe.el6.noarch.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-client-tools-17.1.2-1.el6.x86_64.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-console-services-1.7.127-1.el6.noarch.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-console-services-termini-1.7.127-1.el6.noarch.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-installer-2017.1.2-1.el6.x86_64.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-java-2017.1.1.8.0.121-1.b13.pe.el6.x86_64.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-license-0.1.5.15-1.pe.el6.noarch.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-modules-2017.1.2-1.el6.x86_64.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-nginx-2017.1.1.10.2-1.pe.el6.x86_64.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-orchestration-services-0.9.13-1.el6.noarch.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-postgresql-2017.1.9.4.10-1.pe.el6.x86_64.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-postgresql-contrib-2017.1.9.4.10-1.pe.el6.x86_64.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-postgresql-devel-2017.1.9.4.10-1.pe.el6.x86_64.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-postgresql-pglogical-2017.1.1.2-1.el6.x86_64.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-postgresql-server-2017.1.9.4.10-1.pe.el6.x86_64.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-puppetdb-4.3.2-1.el6.noarch.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-puppetdb-termini-4.3.2-1.el6.noarch.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-puppet-enterprise-release-2017.1.1.0-1.pe.el6.noarch.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-puppet-license-cli-0.1.7.26-1.pe.el6.noarch.rpm
puppet-enterprise-2017.1.1-el-6-x86_64/packages/el-6-x86_64/pe-puppetserver-2017.1.1.0-1.el6.noarch.rpm

```

### 🔧 To install PE – puppet Enterprise

- Once unzip is done a directory will be created and need to go in that directory
  - `cd puppet-enterprise-2017.1.1-el-6-x86_64`

```

root@localhost:~# cd puppet-enterprise-2017.1.1-el-6-x86_64

```

Below will be list of file in it

```

root@puppet_enterprise puppet-enterprise-2017.1.1-el-6-x86_64# ls -l
total 204
drwxr-xr-x. 2 root root 4096 Mar 25 16:45 conf.d
-rw-rw-r--. 1 root root 19151 Dec 21 12:21 LICENSE.txt
drwxr-xr-x. 3 root root 4096 Mar 25 16:45 packages
-rwxrwxr-x. 1 root root 32711 Mar 17 10:56 puppet-enterprise-installer
-rwxrwxr-x. 1 root root 136894 Mar 17 10:56 puppet-enterprise-uninstaller
-rw-rw-r--. 1 root root 1225 Dec 21 12:21 README.markdown
-rw-rw-r--. 1 root root 9 Mar 17 10:56 VERSION
root@puppet_enterprise puppet-enterprise-2017.1.1-el-6-x86_64#

```

- To execute you need to use Puppet-enterprise-installer using this by adding prefix `./`
  - `./puppet-enterprise-installer`

**Note before execute we need to check if NTP is up and running, firewall is off**

- ntpq -p = give the statics NTP is running, check upstream synchronization
- ntpstat = will tell if its running or not
- yum install ntp = if it's not installed we need to install
- service ntpd start = since ntp was not running we have started
- ntpstat = initial we didn't had any statistics after restart we have got statistic in place

```
[root@puppet_enterprise ~]# ntpq -p
ntpq: read: Connection refused
[root@puppet_enterprise ~]# ntpstat
Unable to talk to NTP daemon. Is it running?
[root@puppet_enterprise ~]# yum install ntp
Loaded plugins: product-id, refresh-packagekit, security, subscription-manager
This system is not registered to Red Hat Subscription Management. You can use subscription-manager to register.
Setting up Install Process
Package ntp-4.2.4p8-3.el6.x86_64 already installed and latest version
Nothing to do
[root@puppet_enterprise ~]# ntp restart
bash: ntp: command not found
[root@puppet_enterprise ~]# service ntpd start
Starting ntpd: [ OK ]
[root@puppet_enterprise ~]# ntpstat
unsynchronised
time server re-starting
polling server every 64 s
[root@puppet_enterprise ~]# ntpq -p
remote          refid          st t when poll reach  delay  offset  jitter
=====
astoria.lorelan 179.43.76.147   2 u  37   64    1 113.862 -197996  0.000
fozzie.lorelan  179.43.76.147   2 u  37   64    1 134.233 -197996  0.000
tartaros.dust-p 126.94.231.148  2 u  35   64    1 497.089 -197998  0.000
[root@puppet_enterprise ~]#
```

Firewall to be off

- ✓ service iptables status
- ✓ service iptables stop

make sure Host file is configured for hosts and hostname (vi /etc/hostname) (vi /etc/hosts)

```
^C[root@puppet_enterprise puppet-enterprise-2017.1.1-el-6-x86_64]# vi /etc/hostname
[root@puppet_enterprise puppet-enterprise-2017.1.1-el-6-x86_64]# vi /etc/hosts
[root@puppet_enterprise puppet-enterprise-2017.1.1-el-6-x86_64]# hostname
localhost.localdomain
[root@puppet_enterprise puppet-enterprise-2017.1.1-el-6-x86_64]#
```

## Run script installer

```

root@localhost:/var/ftp/pub/puppet-enterprise-2017.1.1-el-6-x86_64 (on puppet_enterprise)
File Edit View Search Terminal Help
[root@puppet enterprise puppet-enterprise-2017.1.1-el-6-x86_64]# ./ puppet-enterprise-2017.1.1-el-6-x86_64
bash: ./: is a directory
[root@puppet enterprise puppet-enterprise-2017.1.1-el-6-x86_64]# ls
conf.d LICENSE.txt packages puppet-enterprise-installer puppet-enterprise-uninstaller README.markdown VERSION
[root@puppet enterprise puppet-enterprise-2017.1.1-el-6-x86_64]# cd puppet-enterprise-installer
bash: cd: puppet-enterprise-installer: Not a directory
[root@puppet enterprise puppet-enterprise-2017.1.1-el-6-x86_64]# ./ puppet-enterprise-installer
bash: ./: is a directory
[root@puppet enterprise puppet-enterprise-2017.1.1-el-6-x86_64]# ./puppet-enterprise-installer
/var/ftp/pub/puppet-enterprise-2017.1.1-el-6-x86_64 /var/ftp/pub/puppet-enterprise-2017.1.1-el-6-x86_64
=====
Puppet Enterprise Installer
=====
Puppet Enterprise offers two different methods of installation.

[1] Guided install

Recommended for beginners. This method will install and configure a temporary
webserver to walk you through the various configuration options.

NOTE: This method requires you to be able to access port 3000 on this machine
from your desktop web browser.

[2] Text-mode

Recommended for advanced users. This method will open your $EDITOR (vi)
with a PE config file (pe.conf) for you to edit before you proceed with installation.

The pe.conf file is a HOCON formatted file that declares parameters and values needed to
install and configure PE.
We recommend that you review it carefully before proceeding.
=====

How to proceed? [1]:

```

```

Applications Places System
root@localhost:/var/ftp/pub/puppet-enterprise-2017.1.1-el-6-x86_64 (on puppet_enterprise)
File Edit View Search Terminal Help
Transaction Summary
=====
Install 3 Package(s)

Total download size: 38 M
Installed size: 178 M
Downloading Packages:
-----
Total 263 MB/s | 38 MB 00:00
Running rpm_check debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing : puppet-agent-1.9.3-1.el6.x86_64 1/3
  Installing : pe-installer-2017.1.2-1.el6.x86_64 2/3
  Installing : pe-modules-2017.1.2-1.el6.x86_64 3/3
  Verifying : puppet-agent-1.9.3-1.el6.x86_64 1/3
  Verifying : pe-installer-2017.1.2-1.el6.x86_64 2/3
  Verifying : pe-modules-2017.1.2-1.el6.x86_64 3/3

Installed:
  pe-installer.x86_64 0:2017.1.2-1.el6 pe-modules.x86_64 0:2017.1.2-1.el6
  puppet-agent.x86_64 0:1.9.3-1.el6

Complete!

## We're preparing the Web Installer...

2017-03-25 19:51:07,552 Running command: mkdir -p /opt/puppetlabs/puppet/share/installer/installer
2017-03-25 19:51:07,561 Running command: cp -pR /var/ftp/pub/puppet-enterprise-2017.1.1-el-6-x86_64/* /opt/puppetlabs/puppet/share/installer/installer/

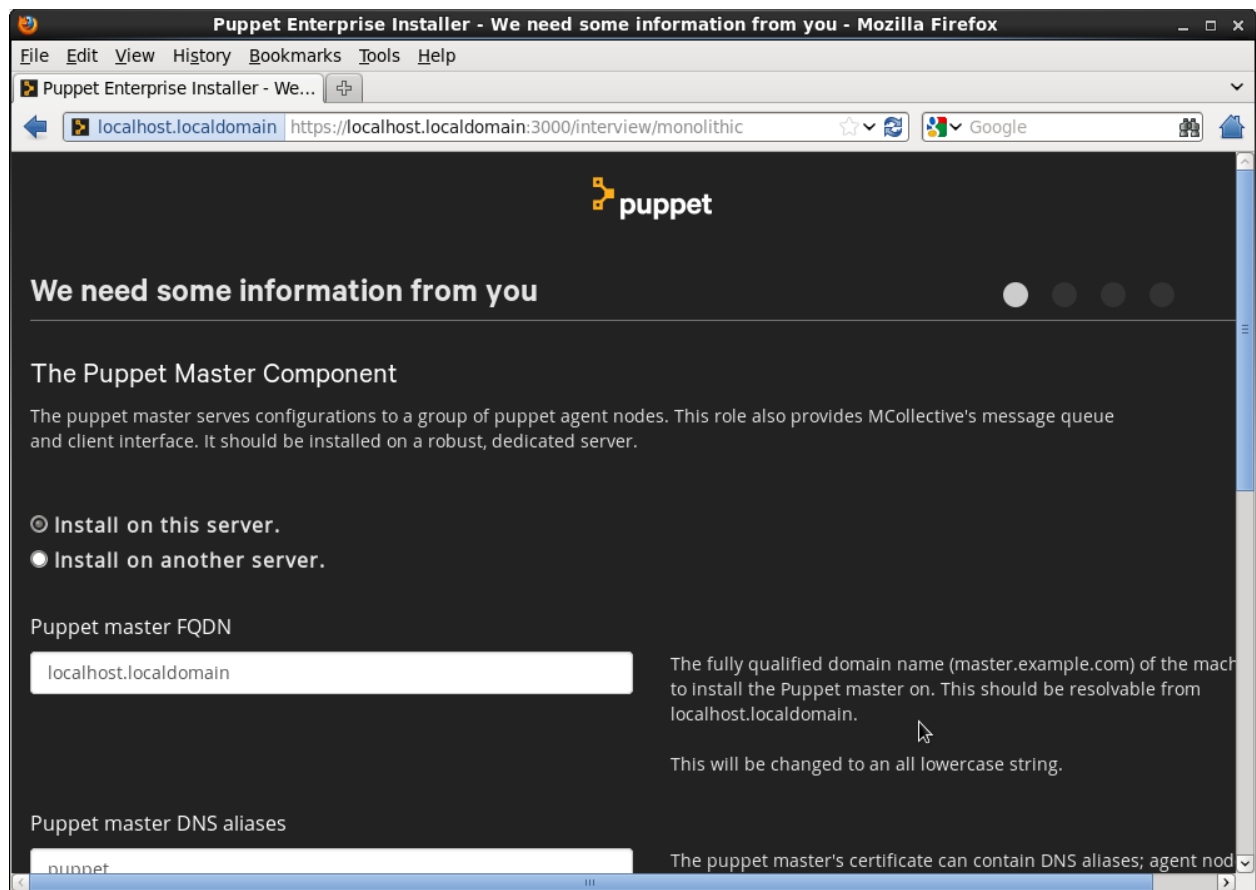
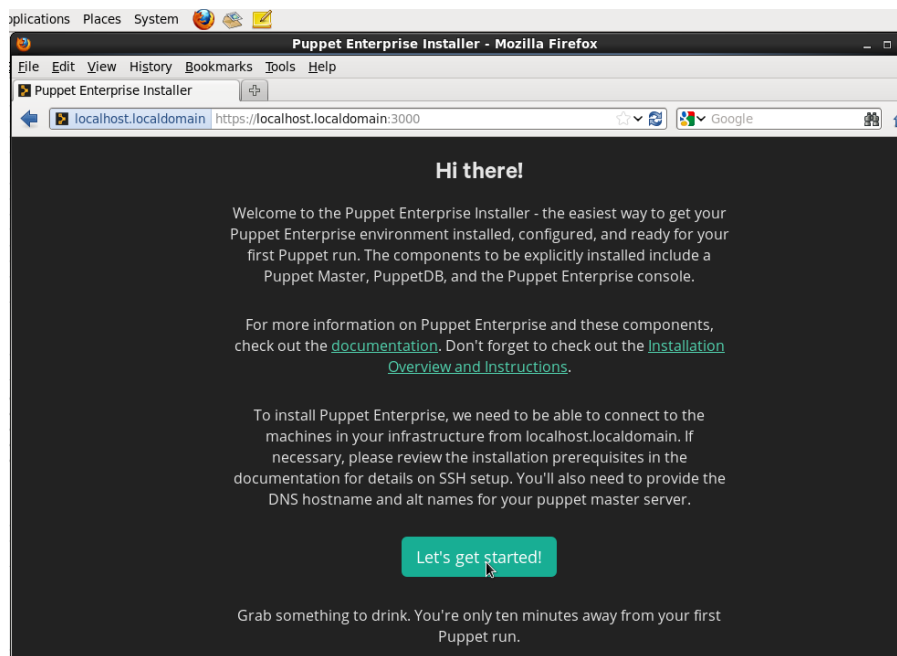
## Go to https://localhost.localdomain:3000 in your browser to continue installation.

## Be sure to use 'https://' and that port 3000 is reachable through the firewall.

2017-03-25 19:51:11,330 Running command: RACK_ENV=production /opt/puppetlabs/puppet/share/installer/vendor/bundler/bin/thin start --debug -p 3000 -a 0.0.0.0 --ssl --ssl
-disable-verify &> /dev/null

```

to continue installation go to URL as mention above <https://localhost.localdomain:3000>



Puppet Enterprise Installer - We need some information from you - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Puppet Enterprise Installer - We...

localhost.localdomain https://localhost.localdomain:3000/interview/monolithic Google

This must be a comma separated list that does not contain the following characters: \_ ` ; ( ) "

### Database support

Puppet Enterprise requires a PostgreSQL Instance for data storage. We can set it all up for you, or you can use an existing PostgreSQL Instance. If you're unsure, choose to have us set things up.

- ☒ Install PostgreSQL on the PuppetDB host for me.
- ☐ Use an existing PostgreSQL instance.

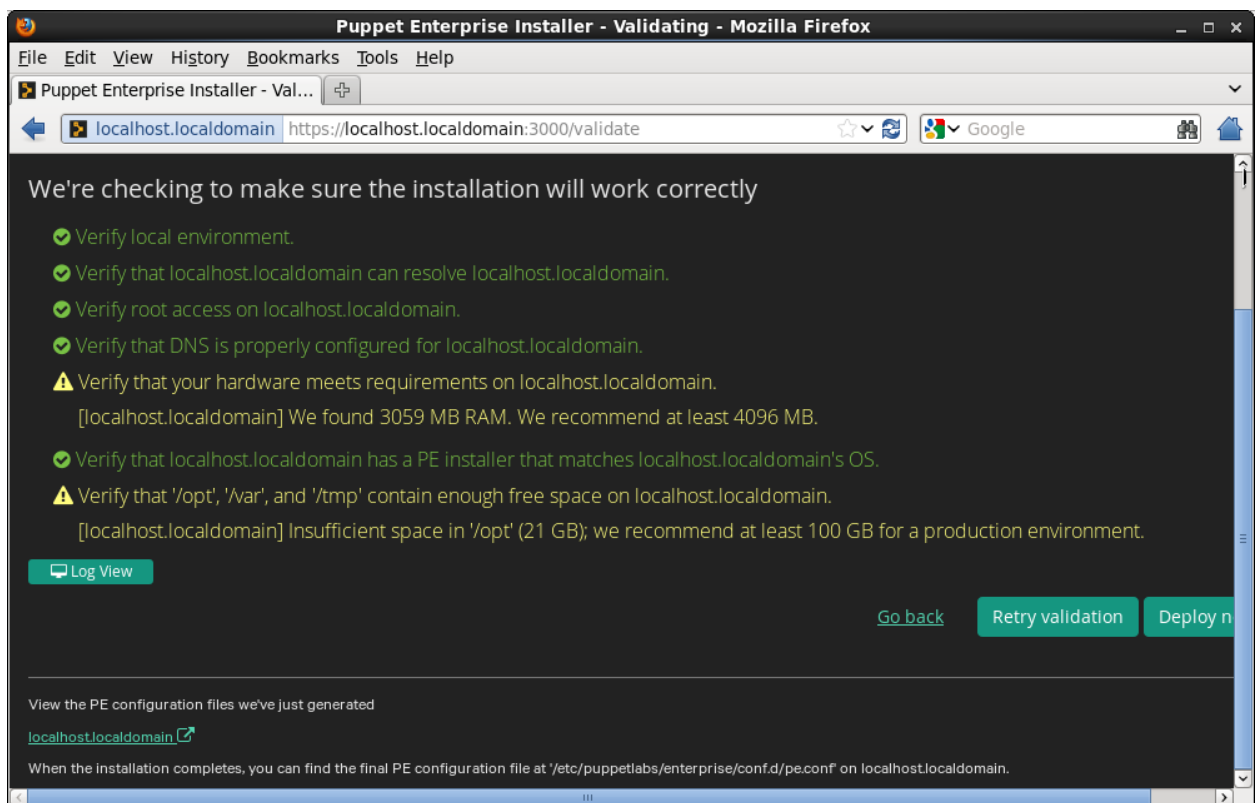
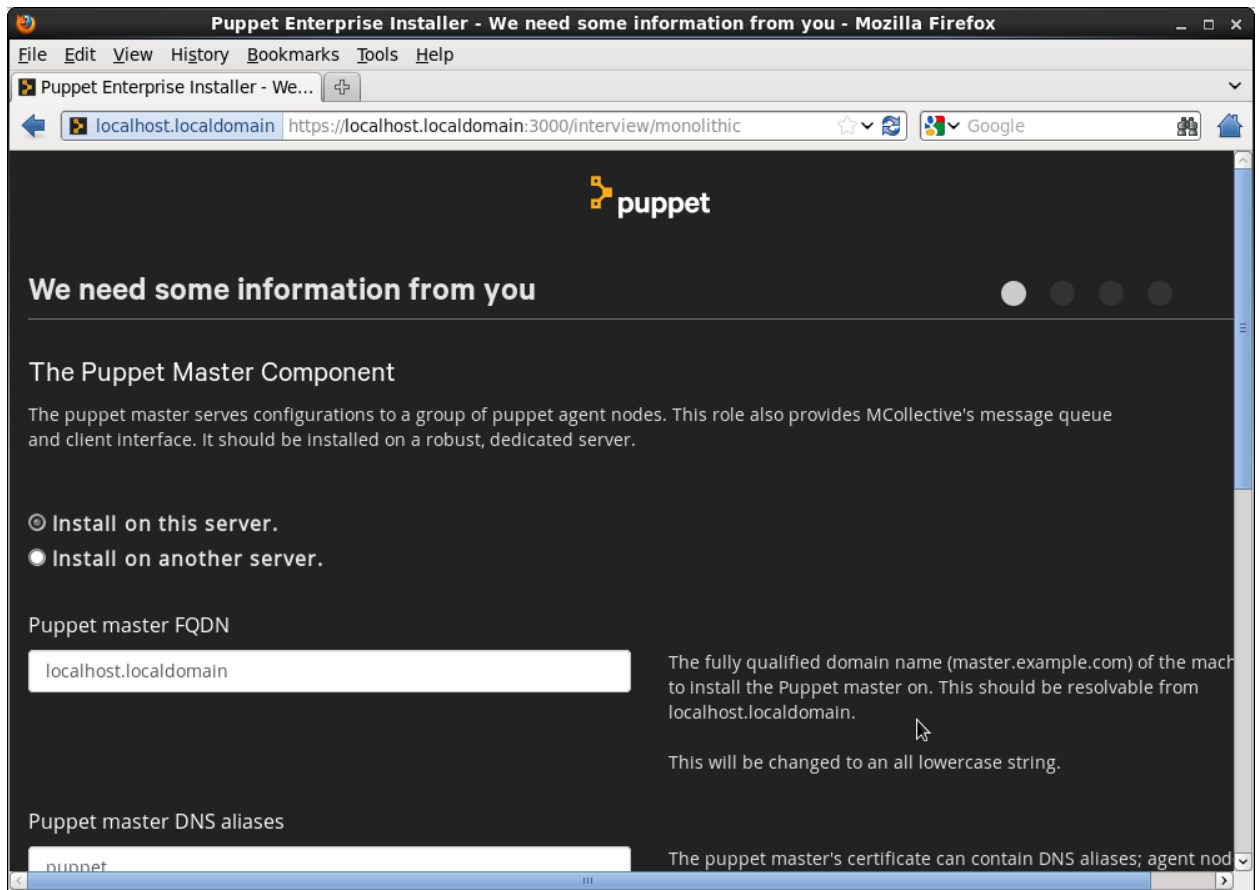
### Console 'admin' user

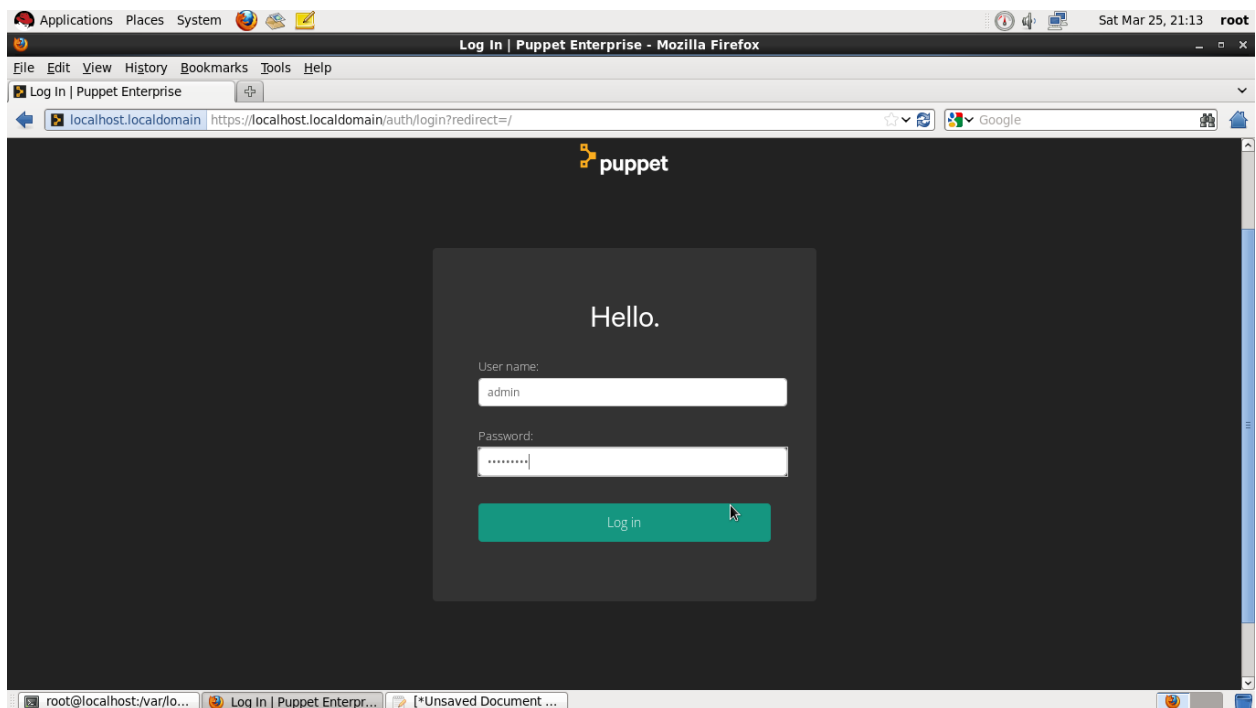
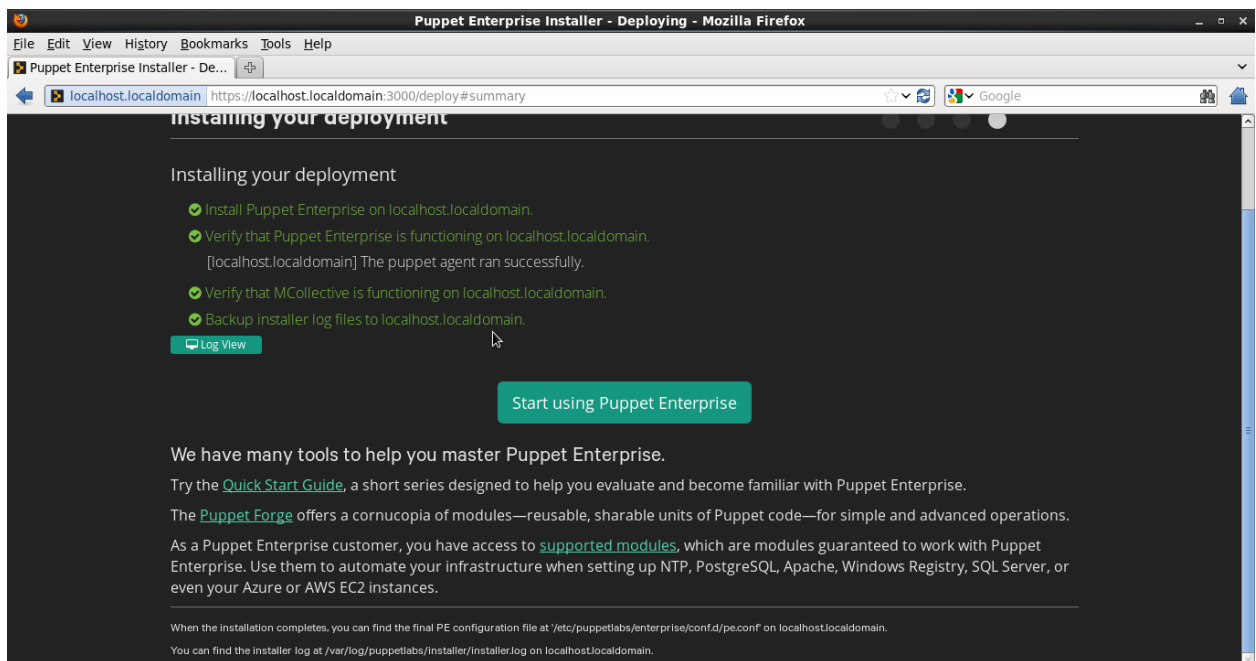
Console 'admin' password

\*\*\*\*\*

The password must be at least 8 characters.

[Go back](#) [Continue](#)







Overview | Configuration Management | Puppet Enterprise - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Overview | Configuration Mana... <https://localhost.localdomain/#/cm/nodes>

**puppet**

Configuration Management

Gain insights and visibility into your Puppet-managed Infrastructure.

Overview

Events

Reports

License

Access control

Help

My account

**Overview**

View the latest run status for each node and focus on areas in need of attention. Data refreshed: 2 minutes

Nodes under Puppet management: 1

☒ Nodes must match all rules.  
☐ Nodes may match any rule.

Fact	Operator	Value	Matching nodes
<input type="text" value="select fact"/>	<input type="text" value="="/>	<input type="text" value="input exact value"/>	<input type="text" value="-"/>

**1** Nodes run in **enforcement**

- 0 with failures
- 0 with corrective changes
- 1 with intentional changes

**0** Nodes run in **no-op**

- 0 with failures
- 0 would have corrective changes
- 0 would have intentional changes

**0** Nodes not reporting

- 0 unresponsive for 1+ hours
- 0 have no reports