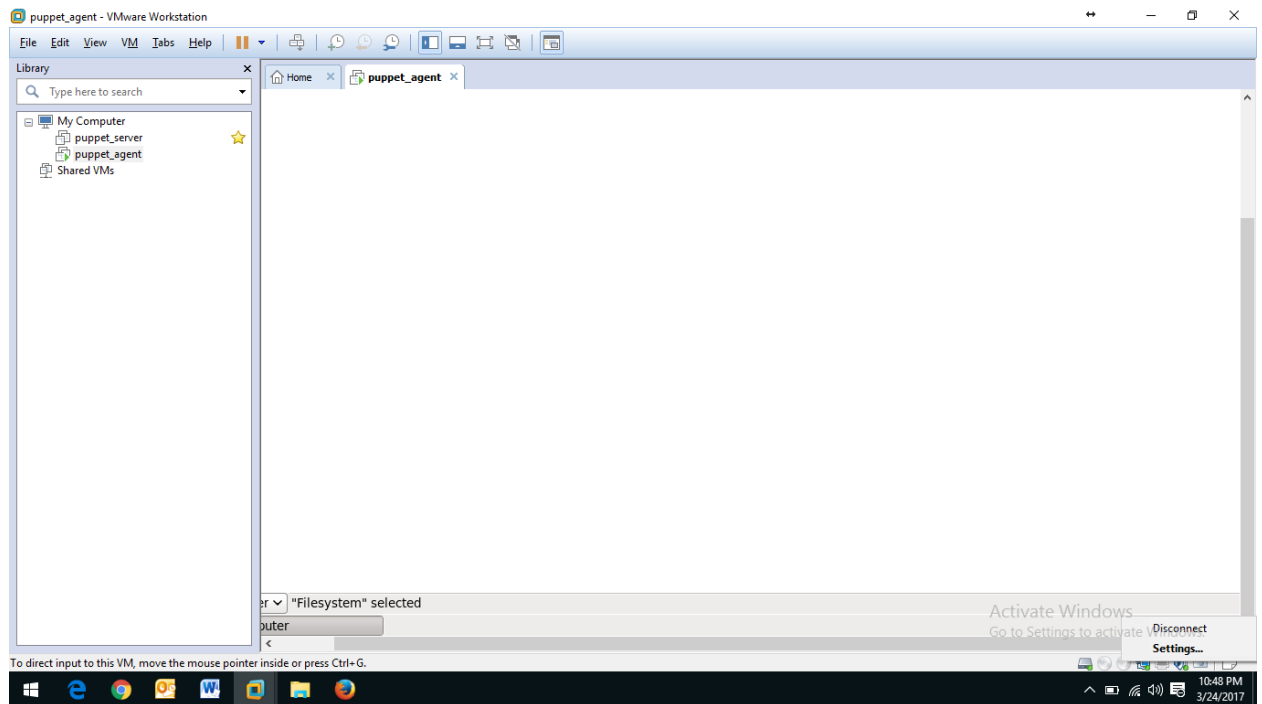
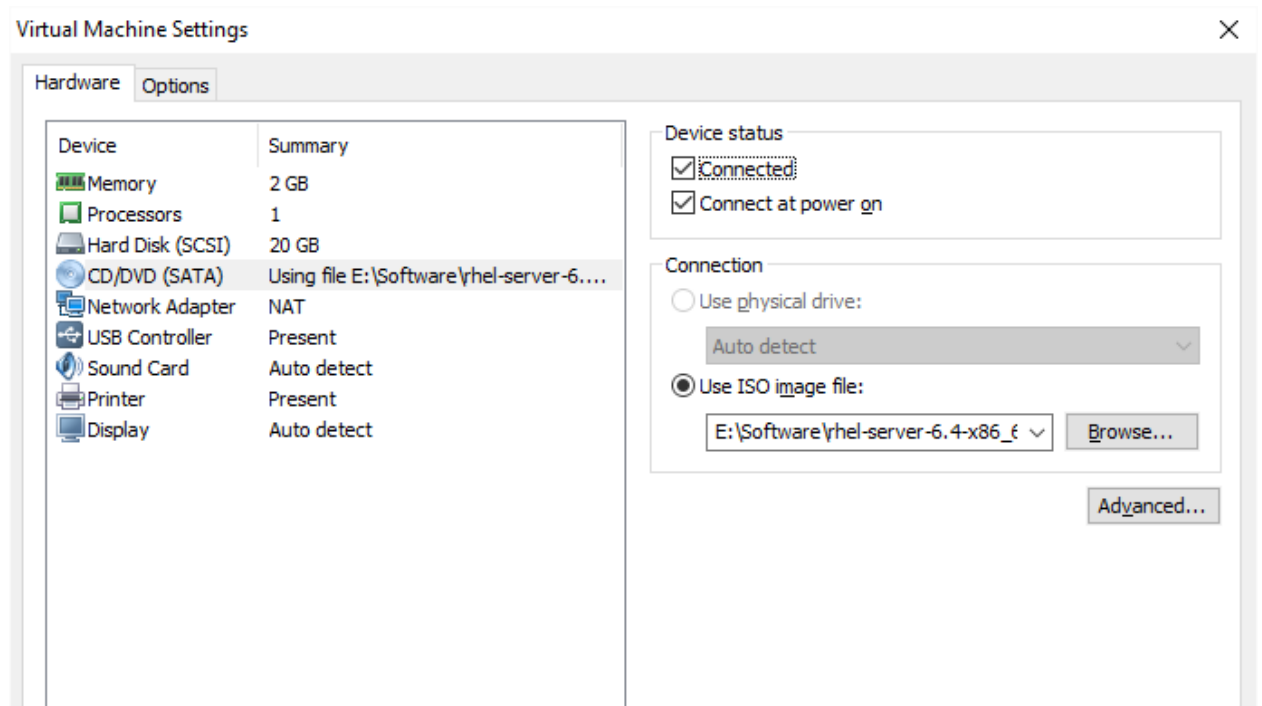


- ✚ Install Linux for puppet Master creation
- ✚ Get Yum configured as mention below
  - Step1 Mount the DVD or ISO file.

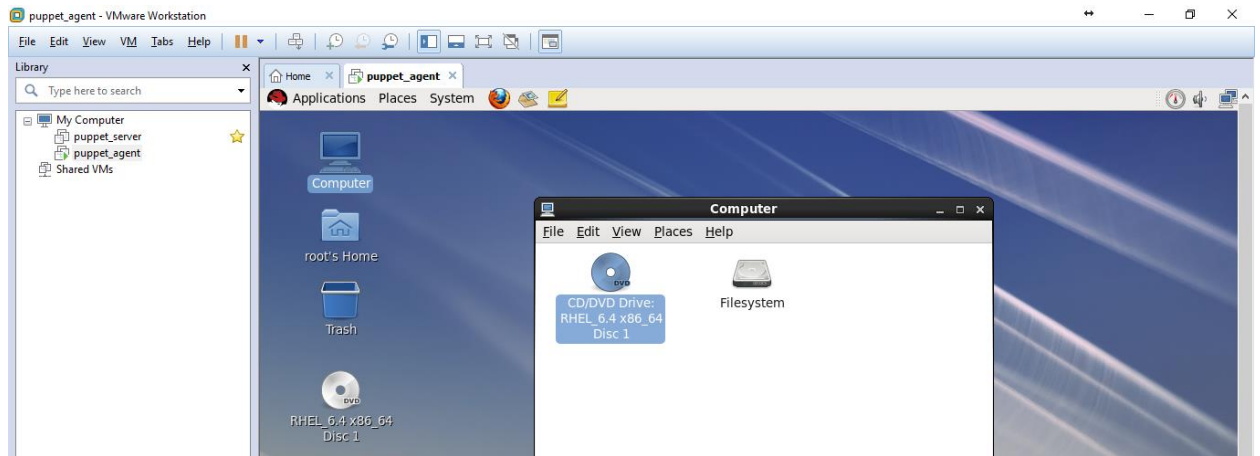
Right click in bottom and select setting



Select red hat ISO image and make sure connect checkbox is selected and select ok



You should display mount on your terminal desktop and in my computer

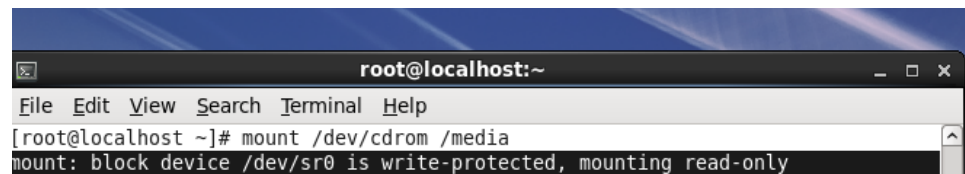


Go to terminal and give below command

- ✓ `mount /dev/cdrom /media`

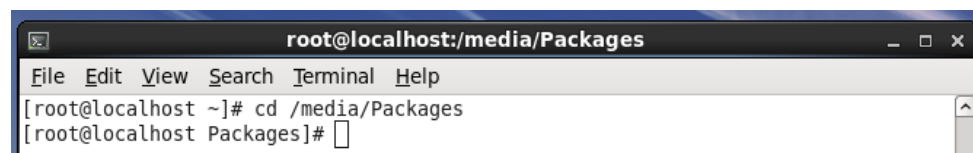
This will display

mount: block device /dev/sr0 is write-protected, mounting read-only



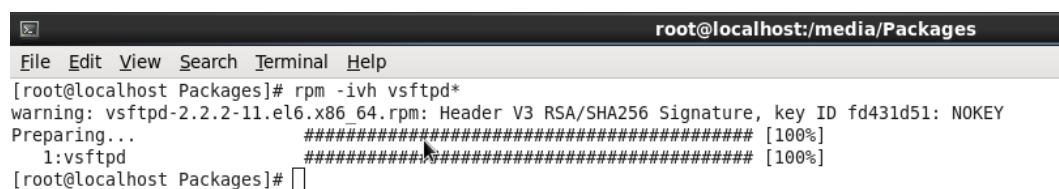
Once mount is done go to media/packages where ftp rpm can be installed giving below command

- ✓ `CD / media/Packages`



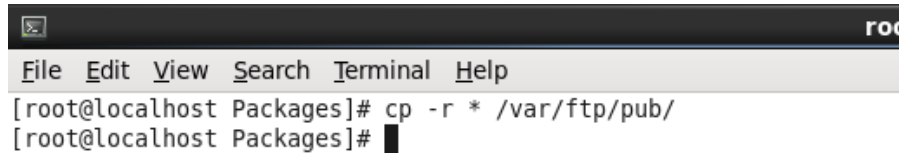
- Step 2 Installing ftp rpm in server

- ✓ `rpm -ivh vsftpd*` (give below command in terminal)



- Step3. Copy all packages in any dir (in our case we are copying into /var/ftp/pub/ directory).

✓ `cp -r * /var/ftp/pub/`



```

File Edit View Search Terminal Help
[root@localhost Packages]# cp -r * /var/ftp/pub/
[root@localhost Packages]#

```

- Step 4 install create repo rpm with dependency.

✓ `rpm -ivh delta*`

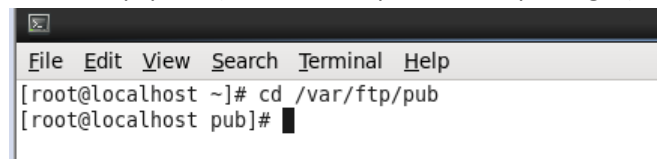
✓ `rpm -ivh python-delta*`

```

[root@localhost Packages]# rpm -ivh delta*
warning: deltarpm-3.5-0.5.20090913git.el6.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID fd431d51: NOKEY
Preparing... ##### [100%]
1:deltarpm ##### [100%]
[root@localhost Packages]# rpm -ivh python-delta*
warning: python-deltarpm-3.5-0.5.20090913git.el6.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID fd431d51: NOKEY
Preparing... ##### [100%]
1:python-deltarpm ##### [100%]
You have mail in /var/spool/mail/root
[root@localhost Packages]#

```

✓ `cd /var/ftp/pub` (where we copied all our packages)



```

File Edit View Search Terminal Help
[root@localhost ~]# cd /var/ftp/pub
[root@localhost pub]#

```

✓ `rpm -ivh createrepo*`

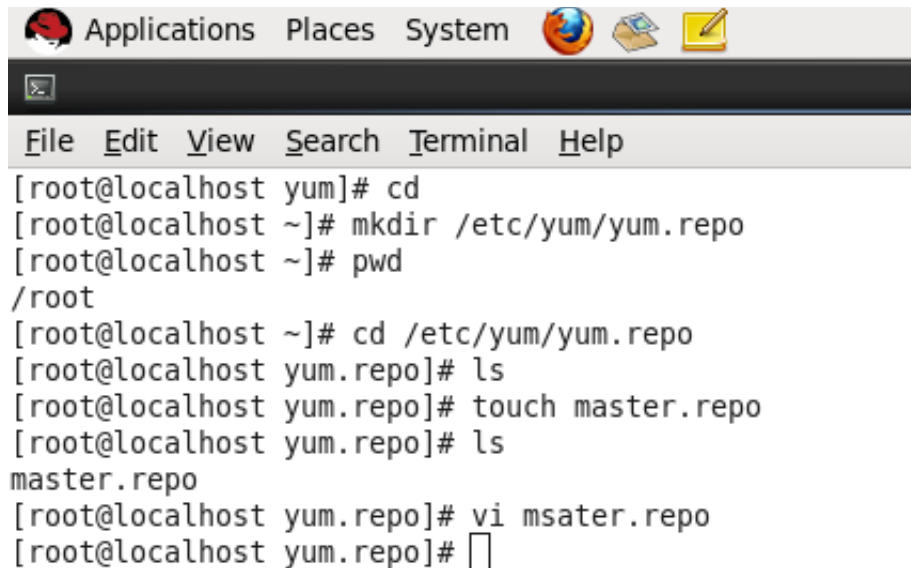
```

[root@localhost Packages]# rpm -ivh createrepo*
warning: createrepo-0.9.9-17.el6.noarch.rpm: Header V3 RSA/SHA256 Signature, key ID fd431d51: NOKEY
Preparing... ##### [100%]
1:createrepo ##### [100%]
[root@localhost Packages]#

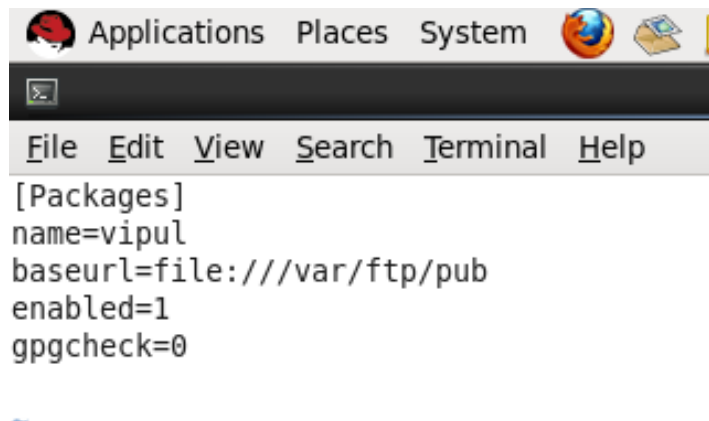
```

Create repo directory and add content

- ✓ `mkdir /etc/yum/yum.repo`
- ✓ `touch master.repo` (Add below content to it)
  - `[Packages]`
  - `name=vipul`
  - `baseurl=file:///var/ftp/pub`
  - `enabled=1`
  - `gpgcheck=0`



```
[root@localhost yum]# cd
[root@localhost ~]# mkdir /etc/yum/yum.repo
[root@localhost ~]# pwd
/root
[root@localhost ~]# cd /etc/yum/yum.repo
[root@localhost yum.repo]# ls
[root@localhost yum.repo]# touch master.repo
[root@localhost yum.repo]# ls
master.repo
[root@localhost yum.repo]# vi msater.repo
[root@localhost yum.repo]#
```



```
[Packages]
name=vipul
baseurl=file:///var/ftp/pub
enabled=1
gpgcheck=0
~
```

### ✚ Enable the Puppet Package Repository

Based on linux version rpm needs to be downloaded

- ✓ Sudo rpm -ivh <https://yum.puppetlabs.com/puppetlabs-release-el.noarch.rpm>

```
[root@puppet_master etc]# sudo rpm -ivh https://yum.puppetlabs.com/puppetlabs-release-el-6.noarch.rpm
Retrieving https://yum.puppetlabs.com/puppetlabs-release-el-6.noarch.rpm
Preparing... ##### [100%]
package puppetlabs-release-22.0-2.noarch is already installed
[root@puppet_master etc]#
```

### ✚ Install Puppet on the Puppet Master Server

- ✓ Sudo yum install puppetserver

```
[root@puppet_master/etc]# sudo yum install puppetserver
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
Resolving Dependencies
--> Running transaction check
--> Package puppetserver.noarch 0:1.2.0-1.el6 will be installed
--> Processing Dependency: puppet < 4.0.0 for package: puppetserver-1.2.0-1.el6.noarch
--> Processing Dependency: puppet >= 3.7.3 for package: puppetserver-1.2.0-1.el6.noarch
--> Processing Dependency: java-1.7.0-openjdk for package: puppetserver-1.2.0-1.el6.noarch
--> Running transaction check
--> Package java-1.7.0-openjdk.x86_64 1:1.7.0.9-2.3.4.1.el6_3 will be installed
--> Processing Dependency: jpackage-utils >= 1.7.3-1jpp.2 for package: 1:java-1.7.0-openjdk-1.7.0.9-2.3.4.1.el6_3.x86_64
--> Processing Dependency: tzdata-java for package: 1:java-1.7.0-openjdk-1.7.0.9-2.3.4.1.el6_3.x86_64
--> Processing Dependency: rhino for package: 1:java-1.7.0-openjdk-1.7.0.9-2.3.4.1.el6_3.x86_64
--> Processing Dependency: libgif.so.4()(64bit) for package: 1:java-1.7.0-openjdk-1.7.0.9-2.3.4.1.el6_3.x86_64
--> Package puppet.noarch 0:3.8.7-1.el6 will be installed
--> Processing Dependency: hiera >= 1.0.0 for package: puppet-3.8.7-1.el6.noarch
--> Processing Dependency: facter >= 1:1.7.0 for package: puppet-3.8.7-1.el6.noarch
--> Processing Dependency: ruby(selinux) for package: puppet-3.8.7-1.el6.noarch
--> Processing Dependency: rubygem-json for package: puppet-3.8.7-1.el6.noarch
--> Processing Dependency: ruby-augeas for package: puppet-3.8.7-1.el6.noarch
--> Processing Dependency: ruby-shadow for package: puppet-3.8.7-1.el6.noarch
--> Running transaction check
--> Package facter.x86_64 1:2.4.6-1.el6 will be installed
--> Package gliblib.x86_64 0:4.1.6-3.1.el6 will be installed
--> Package hiera.noarch 0:1.3.4-1.el6 will be installed
--> Package jpackage-utils.noarch 0:1.7.5-3.12.el6 will be installed
--> Package libselinux-ruby.x86_64 0:2.0.94-5.3.el6 will be installed
--> Package rhino.noarch 0:1.7-0.7.r2.2.el6 will be installed
--> Processing Dependency: jline for package: rhino-1.7-0.7.r2.2.el6.noarch
--> Package ruby-augeas.x86_64 0:0.4.1-3.el6 will be installed
--> Processing Dependency: augeas-libs >= 0.8.0 for package: ruby-augeas-0.4.1-3.el6.x86_64
--> Processing Dependency: libaugeas.so.0(AUGEAS_0.11.0) (64bit) for package: ruby-augeas-0.4.1-3.el6.x86_64
--> Processing Dependency: libaugeas.so.0(AUGEAS_0.10.0) (64bit) for package: ruby-augeas-0.4.1-3.el6.x86_64
--> Processing Dependency: libaugeas.so.0(AUGEAS_0.12.0) (64bit) for package: ruby-augeas-0.4.1-3.el6.x86_64
--> Processing Dependency: libaugeas.so.0(AUGEAS_0.8.0) (64bit) for package: ruby-augeas-0.4.1-3.el6.x86_64
--> Processing Dependency: libaugeas.so.0(AUGEAS_0.11.0) (64bit) for package: ruby-augeas-0.4.1-3.el6.x86_64
--> Processing Dependency: libaugeas.so.0() (64bit) for package: ruby-augeas-0.4.1-3.el6.x86_64
--> Package ruby-shadow.x86_64 1:2.2.0-2.el6 will be installed
--> Package rubygem-json.x86_64 0:1.5.5-3.el6 will be installed
--> Processing Dependency: rubygems >= 1.3.7 for package: rubygem-json-1.5.5-3.el6.x86_64
--> Package tzdata-java.noarch 0:2012j-1.el6 will be installed
--> Running transaction check
--> Package augeas-libs.x86_64 0:0.9.0-4.el6 will be installed
--> Package jline.noarch 0:0.9.94-0.8.el6 will be installed
--> Package rubygem-json.x86_64 0:1.5.5-3.el6 will be installed
--> Processing Dependency: rubygems >= 1.3.7 for package: rubygem-json-1.5.5-3.el6.x86_64
--> Finished Dependency Resolution
Error: Package: rubygem-json-1.5.5-3.el6.x86_64 (puppetlabs-deps)
        Requires: rubygems >= 1.3.7
You could try using --skip-broken to work around the problem
You could try running: rpm -Va --nofiles --nodigest
[root@puppet_master etc]#
```

Note we have error so to get rid of this we need to install rudy -rdoc

- ✓ yum install ruby-rdoc\*

```

root@puppet_master:~
[root@puppet_master ~]# yum install ruby-rdoc
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
Resolving Dependencies
--> Running transaction check
--> Package ruby-rdoc.x86_64 0:1.8.7.352-7.el6_2 will be installed
--> Processing Dependency: ruby-irb = 1.8.7.352-7.el6_2 for package: ruby-rdoc-1.8.7.352-7.el6_2.x86_64
--> Running transaction check
--> Package ruby-irb.x86_64 0:1.8.7.352-7.el6_2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====================================================================================================================================
 Package                               Arch                               Version                               Repository                               Size
=====================================================================================================================================
Installing:
 ruby-rdoc                             x86_64                             1.8.7.352-7.el6_2                     Packages                                375 k
Installing for dependencies:
 ruby-irb                               x86_64                             1.8.7.352-7.el6_2                     Packages                                311 k
=====================================================================================================================================

Transaction Summary
-----
Install      2 Package(s)

Total download size: 686 k
Installed size: 2.3 M
Is this ok [y/N]: y
Downloading Packages:
-----
Total                                     8.7 MB/s | 686 KB    00:00
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
Warning: RPMDB altered outside of yum.
  Installing : ruby-irb-1.8.7.352-7.el6_2.x86_64                                1/2
  Installing : ruby-rdoc-1.8.7.352-7.el6_2.x86_64                             2/2
  Verifying   : ruby-irb-1.8.7.352-7.el6_2.x86_64                             1/2
  Verifying   : ruby-rdoc-1.8.7.352-7.el6_2.x86_64                             2/2

Installed:
  ruby-rdoc.x86_64 0:1.8.7.352-7.el6_2

```

```

Dependency Installed:
  ruby-irb.x86_64 0:1.8.7.352-7.el6_2
Complete!
[root@puppet_master ~]#

```

Download RPM file from net

[http://rpm.pbone.net/index.php3/stat/4/idpl/23767236/dir/redhat\\_el\\_6/com/rubygems-1.3.7-2.3.noarch.rpm.html](http://rpm.pbone.net/index.php3/stat/4/idpl/23767236/dir/redhat_el_6/com/rubygems-1.3.7-2.3.noarch.rpm.html)

copy the same where all rpm is available

(not necessary but in my case I have copied /var/ftp/pub

```

[root@puppet_master Downloads]# ls
rubygems-1.3.7-2.3.noarch.rpm
[root@puppet_master Downloads]# cp -r * /var/ftp/pub
[root@puppet_master Downloads]# ls
rubygems-1.3.7-2.3.noarch.rpm
[root@puppet_master Downloads]#

```

Go to rpm location

✓ CD /var/ftp/pub

Now you are in location where your downloaded RPM is available give below command to install

✓ rpm -ivh rubygems-1.3.7-2.3.noarch.rpm

```

[root@puppet_master pub]# rpm -ivh rubygems-1.3.7-2.3.noarch.rpm
warning: rubygems-1.3.7-2.3.noarch.rpm: Header V3 DSA/SHA1 Signature, key ID 0b8f71fe: NOKEY
Preparing...
1:rubygems

```

## ✓ yum install puppetserver

```

root@puppet_master:~# yum install puppetserver
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
Resolving Dependencies
--> Running transaction check
--> Package puppetserver.noarch 0:1.2.0-1.el6 will be installed
--> Processing Dependency: puppet < 4.0.0 for package: puppetserver-1.2.0-1.el6.noarch
--> Processing Dependency: puppet >= 3.7.3 for package: puppetserver-1.2.0-1.el6.noarch
--> Processing Dependency: java-1.7.0-openjdk for package: puppetserver-1.2.0-1.el6.noarch
--> Running transaction check
--> Package java-1.7.0-openjdk.x86_64 1:1.7.0.9-2.3.4.1.el6_3 will be installed
--> Processing Dependency: jpackage-utils >= 1.7.3-1jpp.2 for package: 1:java-1.7.0-openjdk-1.7.0.9-2.3.4.1.el6_3.x86_64
--> Processing Dependency: tzdata-java for package: 1:java-1.7.0-openjdk-1.7.0.9-2.3.4.1.el6_3.x86_64
--> Processing Dependency: rhino for package: 1:java-1.7.0-openjdk-1.7.0.9-2.3.4.1.el6_3.x86_64
--> Processing Dependency: libgif.so.4()(64bit) for package: 1:java-1.7.0-openjdk-1.7.0.9-2.3.4.1.el6_3.x86_64
--> Package puppet.noarch 0:3.8.7-1.el6 will be installed
--> Processing Dependency: hiera >= 1.0.0 for package: puppet-3.8.7-1.el6.noarch
--> Processing Dependency: facter >= 1:1.7.0 for package: puppet-3.8.7-1.el6.noarch
--> Processing Dependency: ruby(selinux) for package: puppet-3.8.7-1.el6.noarch
--> Processing Dependency: rubygem-json for package: puppet-3.8.7-1.el6.noarch
--> Processing Dependency: ruby-augeas for package: puppet-3.8.7-1.el6.noarch
--> Processing Dependency: ruby-shadow for package: puppet-3.8.7-1.el6.noarch
--> Running transaction check
--> Package facter.x86_64 1:2.4.6-1.el6 will be installed
--> Package giflib.x86_64 0:4.1.6-3.1.el6 will be installed
--> Package hiera.noarch 0:1.3.4-1.el6 will be installed
--> Package jpackage-utils.noarch 0:1.7.5-3.12.el6 will be installed
--> Package libselinux-ruby.x86_64 0:2.0.94-5.3.el6 will be installed
--> Package rhino.noarch 0:1.7.0-7.r2.2.el6 will be installed
--> Processing Dependency: jline for package: rhino-1.7.0-7.r2.2.el6.noarch
--> Package ruby-augeas.x86_64 0:0.4.1-3.el6 will be installed
--> Processing Dependency: augeas-libs >= 0.8.0 for package: ruby-augeas-0.4.1-3.el6.x86_64
--> Processing Dependency: libaugeas.so.0(AUGEAS_0.1.0)(64bit) for package: ruby-augeas-0.4.1-3.el6.x86_64
--> Processing Dependency: libaugeas.so.0(AUGEAS_0.10.0)(64bit) for package: ruby-augeas-0.4.1-3.el6.x86_64
--> Processing Dependency: libaugeas.so.0(AUGEAS_0.12.0)(64bit) for package: ruby-augeas-0.4.1-3.el6.x86_64
--> Processing Dependency: libaugeas.so.0(AUGEAS_0.8.0)(64bit) for package: ruby-augeas-0.4.1-3.el6.x86_64
--> Processing Dependency: libaugeas.so.0(AUGEAS_0.11.0)(64bit) for package: ruby-augeas-0.4.1-3.el6.x86_64
--> Processing Dependency: libaugeas.so.0(AUGEAS_0.0)(64bit) for package: ruby-augeas-0.4.1-3.el6.x86_64
--> Package ruby-shadow.x86_64 1:2.2.0-2.el6 will be installed
--> Package rubygem-json.x86_64 0:1.5.5-3.el6 will be installed
--> Package tzdata-java.noarch 0:2012j-1.el6 will be installed

```

You will be ask to select Y/N to download package for which select Y

```

root@puppet_master:~# yum install puppetserver
--> Package tzdata-java.noarch 0:2012j-1.el6 will be installed
--> Running transaction check
--> Package augeas-libs.x86_64 0:0.9.0-4.el6 will be installed
--> Package jline.noarch 0:0.9.94-0.8.el6 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====================================================================================================================================
 Package Arch Version Repository Size
=====================================================================================================================================
Installing:
 puppetserver noarch 1.2.0-1.el6 puppetlabs-products 41 M
Installing for dependencies:
 augeas-libs x86_64 0.9.0-4.el6 Packages 317 k
 facter x86_64 1:2.4.6-1.el6 puppetlabs-products 99 k
 giflib x86_64 4.1.6-3.1.el6 Packages 37 k
 hiera noarch 1.3.4-1.el6 puppetlabs-products 23 k
 java-1.7.0-openjdk x86_64 1:1.7.0.9-2.3.4.1.el6_3 Packages 25 M
 jline noarch 0.9.94-0.8.el6 Packages 86 k
 jpackage-utils noarch 1:7.5-3.12.el6 Packages 59 k
 libselinux-ruby x86_64 2:0.94-5.3.el6 Packages 99 k
 puppet noarch 3.8.7-1.el6 puppetlabs-products 1.6 M
 rhino noarch 1.7.0-7.r2.2.el6 Packages 778 k
 ruby-augeas x86_64 0.4.1-3.el6 puppetlabs-deps 21 k
 ruby-shadow x86_64 1:2.2.0-2.el6 puppetlabs-deps 13 k
 rubygem-json x86_64 1.5.5-3.el6 puppetlabs-deps 763 k
 tzdata-java noarch 2012j-1.el6 Packages 155 k

Transaction Summary
-----
Install 15 Package(s)

Total download size: 70 M
Installed size: 135 M
Is this ok [y/N]: y
Downloading Packages:
(2/15): facter-2.4.6-1.el6.x86_64.rpm | 99 kB 00:01
(4/15): hiera-1.3.4-1.el6.noarch.rpm | 23 kB 00:00
(9/15): puppet-3.8.7-1.el6.noarch.rpm | 1.6 MB 00:05
(10/15): puppetserver-1.2.0-1.el6.noarch.rpm | 41 MB 01:28
(12/15): ruby-augeas-0.4.1-3.el6.x86_64.rpm | 21 kB 00:00
(13/15): ruby-shadow-2.2.0-2.el6.x86_64.rpm | 13 kB 00:00

```

You will be ask again to select Y/N for select Y and you will be progressed with retrieving key

```

root@puppet_master:/var/ftp/pub
From : /etc/pki/rpm-gpg/RPM-GPG-KEY-puppetlabs
Is this ok [y/N]: y
Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-puppet
Importing GPG key 0xEF8D349F:
  Userid : Puppet, Inc. Release Key (Puppet, Inc. Release Key) <release@puppet.com>
  Package: puppetlabs-release-22.0-2.noarch (installed)
  From : /etc/pki/rpm-gpg/RPM-GPG-KEY-puppet

```

You will be ask again to select Y/N for select Y and you will be progressed with transaction

```

root@puppet_master:/var/ftp/pub
Is this ok [y/N]: y
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
Warning: RPMDB altered outside of yum.
Installing : jpackage-utils-1.7.5-3.12.el6.noarch 1/15
Installing : rubygem-json-1.5.5-3.el6.x86_64 2/15
Installing : hiera-1.3.4-1.el6.noarch 3/15
Installing : 1:ruby-shadow-2.2.0-2.el6.x86_64 4/15
Installing : giflib-4.1.6-3.1.el6.x86_64 5/15
Installing : tzdata-java-2012j-1.el6.noarch 6/15
Installing : 1:factor-2.4.6-1.el6.x86_64 7/15
Installing : jline-0.9.94-0.8.el6.noarch 8/15
Installing : rhino-1.7.0-7.r2.2.el6.noarch 9/15
Installing : 1:java-1.7.0-openjdk-1.7.0.9-2.3.4.1.el6_3.x86_64 10/15
Installing : libselinux-ruby-2.0.94-5.3.el6.x86_64 11/15
Installing :augeas-libs-0.9.0-4.el6.x86_64 12/15
Installing : ruby-augeas-0.4.1-3.el6.x86_64 13/15
Installing : puppet-3.8.7-1.el6.noarch 14/15
Installing : puppetserver-1.2.0-1.el6.noarch 15/15
Verifying : augeas-libs-0.9.0-4.el6.x86_64 1/15
Verifying : puppet-3.8.7-1.el6.noarch 2/15
Verifying : libselinux-ruby-2.0.94-5.3.el6.x86_64 3/15
Verifying : 1:java-1.7.0-openjdk-1.7.0.9-2.3.4.1.el6_3.x86_64 4/15
Verifying : puppetserver-1.2.0-1.el6.noarch 5/15
Verifying : jline-0.9.94-0.8.el6.noarch 6/15
Verifying : 1:factor-2.4.6-1.el6.x86_64 7/15
Verifying : ruby-augeas-0.4.1-3.el6.x86_64 8/15
Verifying : rubygem-json-1.5.5-3.el6.x86_64 9/15
Verifying : hiera-1.3.4-1.el6.noarch 10/15
Verifying : rhino-1.7.0-7.r2.2.el6.noarch 11/15
Verifying : tzdata-java-2012j-1.el6.noarch 12/15
Verifying : giflib-4.1.6-3.1.el6.x86_64 13/15
Verifying : jpackage-utils-1.7.5-3.12.el6.noarch 14/15
Verifying : 1:ruby-shadow-2.2.0-2.el6.x86_64 15/15

Installed:
  puppetserver.noarch 0:1.2.0-1.el6

Dependency Installed:
  augeas-libs.x86_64 0:0.9.0-4.el6      factor.x86_64 1:2.4.6-1.el6      giflib.x86_64 0:4.1.6-3.1.el6      hiera.noarch 0:1.3.4-1.el6
  java-1.7.0-openjdk.x86_64 1:1.7.0.9-2.3.4.1.el6_3  jline.noarch 0:0.9.94-0.8.el6      jpackage-utils.noarch 0:1.7.5-3.12.el6      libselinux-ruby.x86_64 0:2.0.94-5.3.el6

  puppet.noarch 0:3.8.7-1.el6      rhino.noarch 0:1.7.0-7.r2.2.el6      ruby-augeas.x86_64 0:0.4.1-3.el6      ruby-shadow.x86_64 1:2.2.0-2.el6
  rubygem-json.x86_64 0:1.5.5-3.el6      tzdata-java.noarch 0:2012j-1.el6

Complete!
[root@puppet_master pub]#

```

Now your Puppet Master server is installed

```

root@puppet_master:/var/ftp/pub
[root@puppet_master pub]# puppet --version
3.8.7
[root@puppet_master pub]#

```