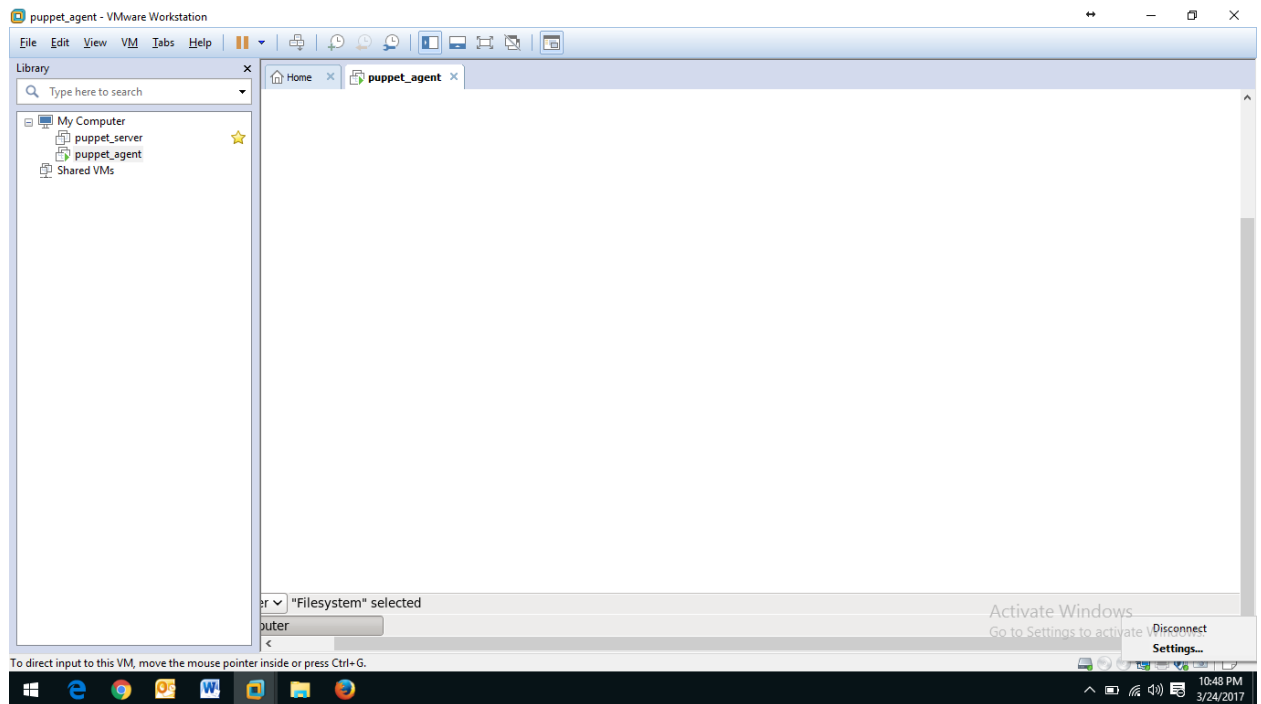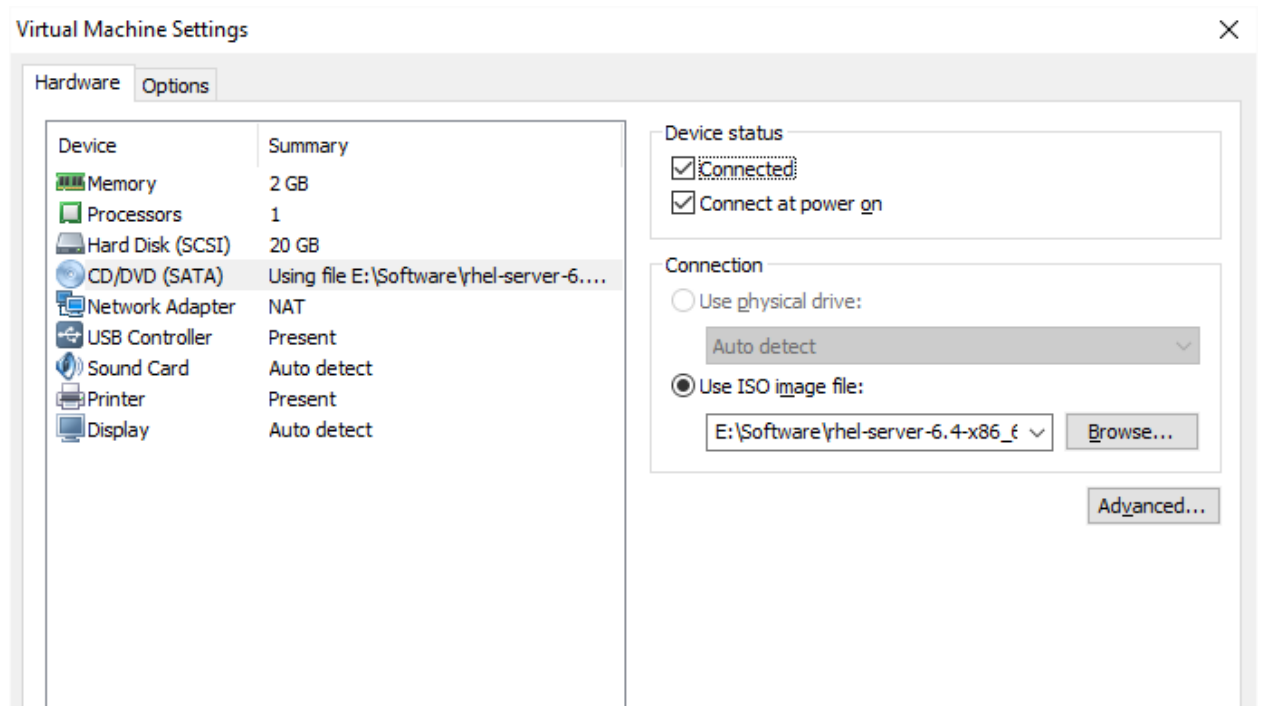- Install Linux for puppet Master creation
- Get Yum configured as metion below
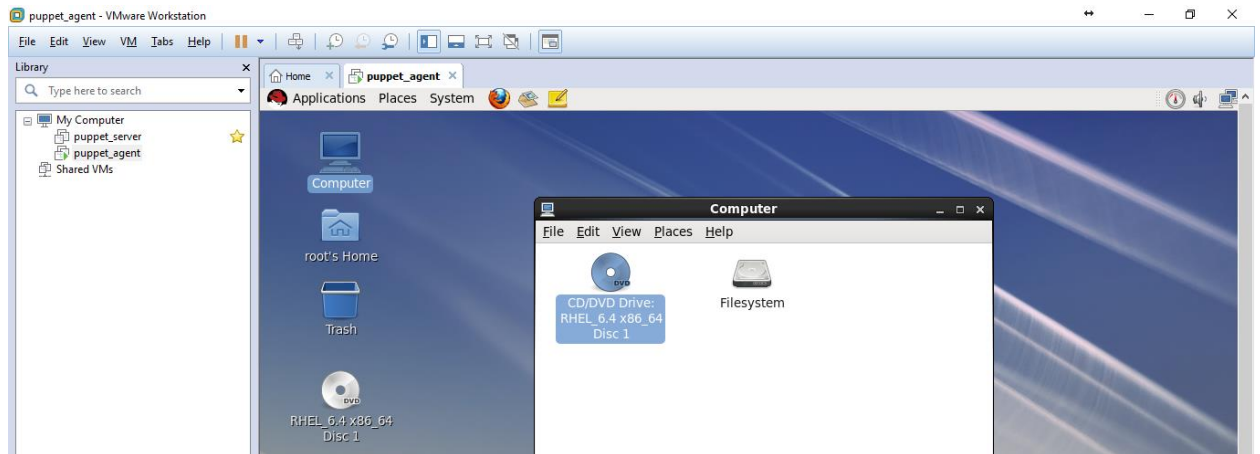 - Step1 Mount the DVD or ISO file.
    Right click in bottom and select setting

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

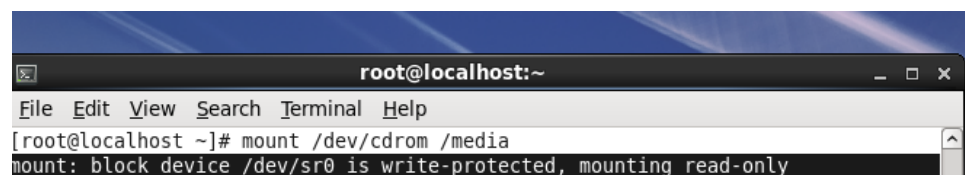You should display mount on your terminal desktop and in my computer

Go to terminal and give below command
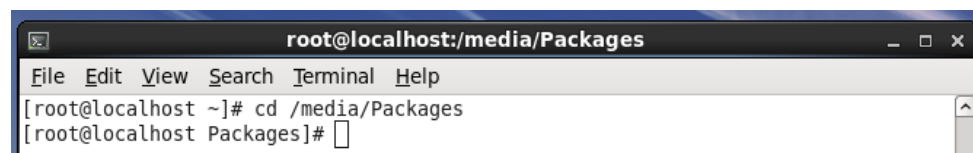- ✓ mount /dev/cdrom /media
  This will display
  mount: block device /dev/sr0 is write-protected, mounting read-only

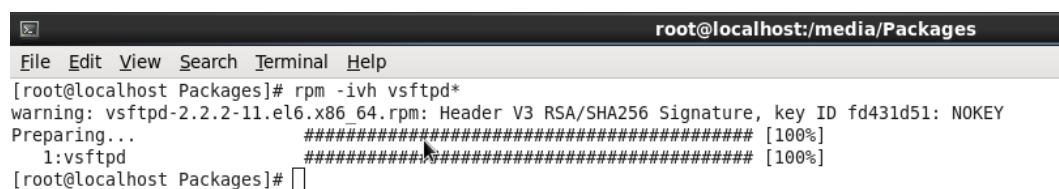Once mount is done go to media/packages where ftp rpm can be installed giving below command

- ✓ CD / media/Packages

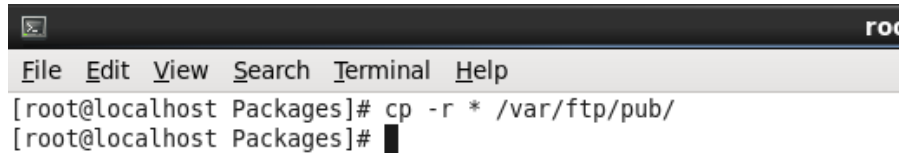
- Step 2 Installing ftp rpm in server
  - ✓ rpm -ivh vsftpd*   (give below command in terminal)

- 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]# █
```
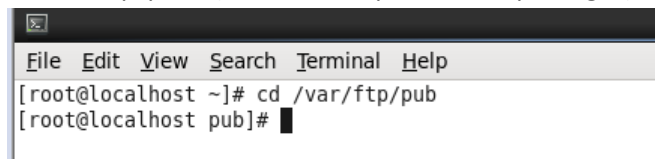
- Step 4 install create repo rpm with dependency.
  - ✓ rpm -ivh delta*
  - ✓ rpm -ivh python-delta*

```
[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]# □
```

  - ✓ createrepo .   (this will install all your package and will create repo folder in pub

```
[root@localhost pub]# createrepo .
Spawning worker 0 with 3720 pkgs
Workers Finished
Gathering worker results

Saving Primary metadata
Saving file lists metadata
Saving other metadata
Generating sqlite DBs
Sqlite DBs complete
[root@localhost pub]# █
```

Give command to check if repodata is created

✓   ls -ltr

➕   Create repo directory and add content

✓   mkdir /etc/yum.repo.d   (your repo should always be in it)
✓   touch master.repo   (Add below content to it)
    [Packages]
    name=vipul
    baseurl=file:///var/ftp/pub
    enabled=1
    gpgcheck=0
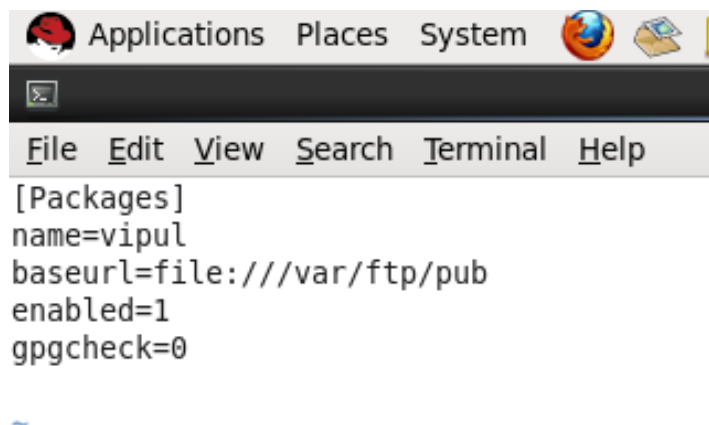
Applications   Places   System

File   Edit   View   Search   Terminal   Help

```
[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]#
```
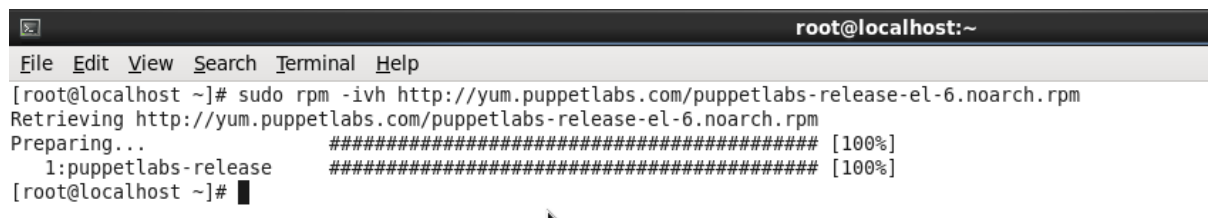
Applications   Places   System

File   Edit   View   Search   Terminal   Help

```
[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-e1.noarch.rpm

root@localhost:~

File   Edit   View   Search   Terminal   Help

```
[root@localhost ~]# sudo rpm -ivh http://yum.puppetlabs.com/puppetlabs-release-el-6.noarch.rpm
Retrieving http://yum.puppetlabs.com/puppetlabs-release-el-6.noarch.rpm
Preparing...                ######################################## [100%]
   1:puppetlabs-release     ######################################## [100%]
[root@localhost ~]#
```

- Installing Puppet Agent
    - ✓ sudo yum install puppet

as shown below you will notice we have error associated to ruby like we have in server so we need to follow same steps that we did for server

```
[root@localhost ~]# sudo yum install puppet
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.
puppetlabs-deps                                                                    | 2.5 kB     00:00
puppetlabs-deps/primary_db                                                         |  27 kB     00:00
puppetlabs-products                                                                | 2.5 kB     00:00
puppetlabs-products/primary_db                                                     | 170 kB     00:01
Setting up Install Process
Resolving Dependencies
--> Running transaction check
---> 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 >= 1.8 for package: puppet-3.8.7-1.el6.noarch
--> Processing Dependency: ruby >= 1.8.7 for package: puppet-3.8.7-1.el6.noarch
--> Processing Dependency: /usr/bin/ruby 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
--> Processing Dependency: ruby >= 1.8.7 for package: 1:facter-2.4.6-1.el6.x86_64
--> Processing Dependency: /usr/bin/ruby for package: 1:facter-2.4.6-1.el6.x86_64
---> Package hiera.noarch 0:1.3.4-1.el6 will be installed
--> Processing Dependency: ruby >= 1.8.5 for package: hiera-1.3.4-1.el6.noarch
--> Processing Dependency: /usr/bin/ruby for package: hiera-1.3.4-1.el6.noarch
---> Package puppet.noarch 0:3.8.7-1.el6 will be installed
--> Processing Dependency: ruby >= 1.8 for package: puppet-3.8.7-1.el6.noarch
--> Processing Dependency: ruby >= 1.8.7 for package: puppet-3.8.7-1.el6.noarch
--> Processing Dependency: /usr/bin/ruby for package: puppet-3.8.7-1.el6.noarch
--> Processing Dependency: ruby(selinux) for package: puppet-3.8.7-1.el6.noarch
```
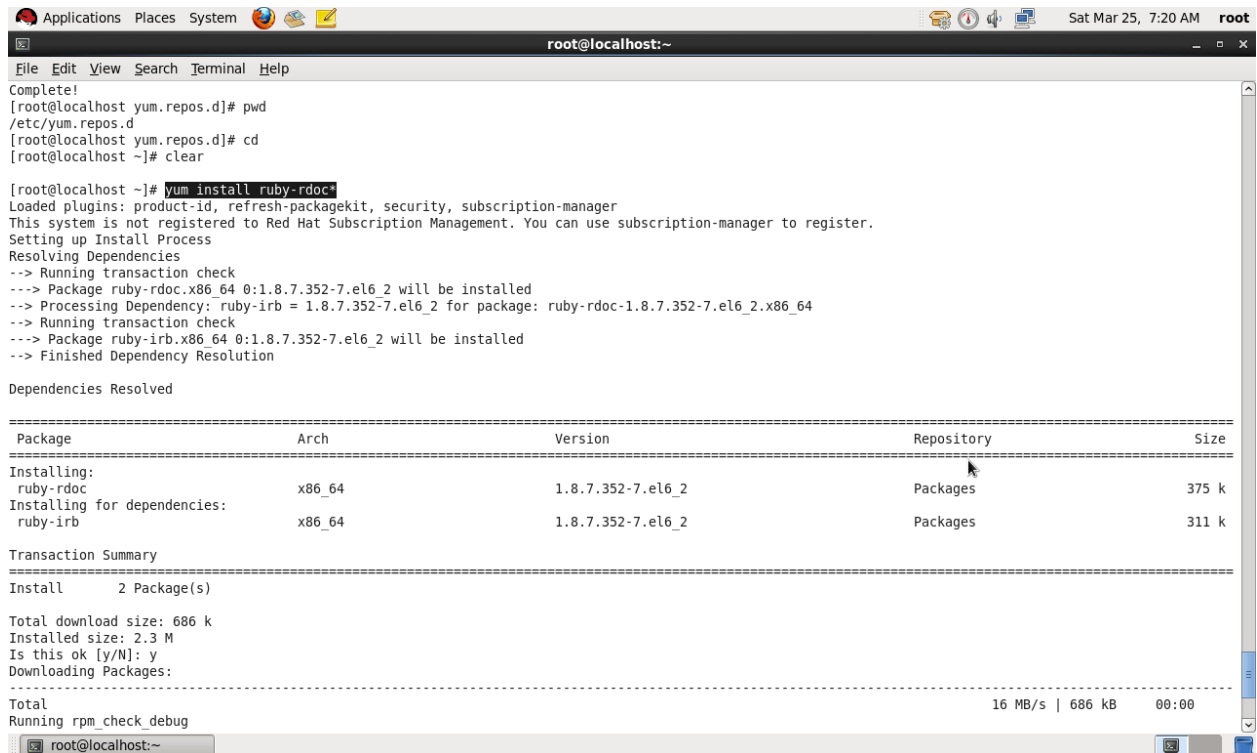
```
                                    root@localhost:~
File  Edit  View  Search  Terminal  Help
Error: Package: hiera-1.3.4-1.el6.noarch (puppetlabs-products)
           Requires: /usr/bin/ruby
Error: Package: ruby-augeas-0.4.1-3.el6.x86_64 (puppetlabs-deps)
           Requires: libaugeas.so.0(AUGEAS_0.8.0)(64bit)
Error: Package: ruby-augeas-0.4.1-3.el6.x86_64 (puppetlabs-deps)
           Requires: ruby(abi) = 1.8
Error: Package: ruby-augeas-0.4.1-3.el6.x86_64 (puppetlabs-deps)
           Requires: libaugeas.so.0(AUGEAS_0.11.0)(64bit)
Error: Package: puppet-3.8.7-1.el6.noarch (puppetlabs-products)
           Requires: ruby >= 1.8.7
Error: Package: ruby-augeas-0.4.1-3.el6.x86_64 (puppetlabs-deps)
           Requires: libaugeas.so.0()(64bit)
Error: Package: hiera-1.3.4-1.el6.noarch (puppetlabs-products)
           Requires: ruby >= 1.8.5
Error: Package: ruby-augeas-0.4.1-3.el6.x86_64 (puppetlabs-deps)
           Requires: libaugeas.so.0(AUGEAS_0.12.0)(64bit)
Error: Package: ruby-augeas-0.4.1-3.el6.x86_64 (puppetlabs-deps)
           Requires: augeas-libs >= 0.8.0
Error: Package: ruby-augeas-0.4.1-3.el6.x86_64 (puppetlabs-deps)
           Requires: libaugeas.so.0(AUGEAS_0.10.0)(64bit)
Error: Package: puppet-3.8.7-1.el6.noarch (puppetlabs-products)
           Requires: /usr/bin/ruby
Error: Package: 1:ruby-shadow-2.2.0-2.el6.x86_64 (puppetlabs-deps)
           Requires: ruby
Error: Package: 1:facter-2.4.6-1.el6.x86_64 (puppetlabs-products)
           Requires: ruby >= 1.8.7
Error: Package: puppet-3.8.7-1.el6.noarch (puppetlabs-products)
           Requires: ruby >= 1.8
Error: Package: ruby-augeas-0.4.1-3.el6.x86_64 (puppetlabs-deps)
           Requires: libaugeas.so.0(AUGEAS_0.1.0)(64bit)
Error: Package: ruby-augeas-0.4.1-3.el6.x86_64 (puppetlabs-deps)
           Requires: libruby.so.1.8()(64bit)
Error: Package: 1:ruby-shadow-2.2.0-2.el6.x86_64 (puppetlabs-deps)
           Requires: libruby.so.1.8()(64bit)
Error: Package: 1:facter-2.4.6-1.el6.x86_64 (puppetlabs-products)
           Requires: /usr/bin/ruby
 You could try using --skip-broken to work around the problem
 You could try running: rpm -Va --nofiles --nodigest
[root@localhost ~]#
```
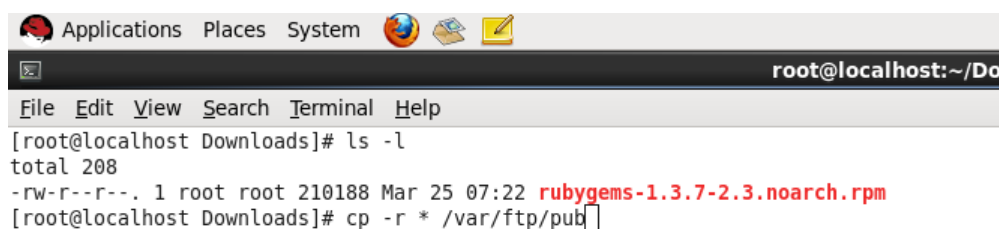
- resolving ruby error
  - ✓ yum install ruby-rdoc*

- 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

  copy the same where all rpm is available

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

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@localhost:/var/ftp/pub
File  Edit  View  Search  Terminal  Help
[root@localhost ~]# cd /var/ftp/pub
[root@localhost 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...                ########################################### [100%]
   1:rubygems               ########################################### [100%]
[root@localhost pub]#
```

After this you will be able to install puppet without ruby error
- ✓ sudo yum install puppet

Once installation is completed you will be able to see puppet version and its folder structure

```
Applications  Places  System                                    Sat Mar 25, 7:45 AM  root
root@localhost:/etc/puppet                                              _  □  ×
File  Edit  View  Search  Terminal  Help
  augeas-libs.x86_64 0:0.9.0-4.el6      facter.x86_64 1:2.4.6-1.el6       hiera.noarch 0:1.3.4-1.el6       libselinux-ruby.x86_64 0:2.0.94-5.3.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

Complete!
[root@localhost ~]# puppet --version
3.8.7
[root@localhost ~]# cd /etc
[root@localhost etc]# cd puppet/
[root@localhost puppet]# ls
auth.conf  modules  puppet.conf
```