[RPM (Redhat Package Manager)](http://shabbathster.blogspot.com/2013/09/rpm-redhat-package-manager.html)

   RPM (Redhat Package Manager)  
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TOPICS : 1) RPM Management  
 2) Installing rpm from SRPM (source code)  
 3) Installation from Tarball files (.tar)  
 4) Uninstallation of tarball  
 5) How to create a rpm from source code  
  
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(1) RPM MANAGEMENT  
  
rpm -i  -> install rpm  
  
rpm -ivh  -> install rpm verbosely and show hashes  
  
 i ->install  
 v ->verbose  
 h ->hash (show the progress in hash "#")  
  
rpm -ivh --test ->This command is used to test a package  
  
rpm -i --nodeps  -> install rpm without checking for dependencies  
  
rpm -e <.rpm> -> This command is used to erase or uninstall a package                            or rpm  
  
rpm -e --nodeps  -> uninstall rpm without checking for dependencies  
  
rpm -evv  -> This command is used to see the uninstallation     process  
  
 -vv -> very verbose  
  
rpm -e -vv --test -> This command is used to test a package before                                   uninstalling  
  
rpm -Uvh  -> This commanf is used to upgrade (uninstall and     install) rpm verbosely and show hashes  
  
rpm -Fvh  -> This command is used to freshen a package.  
  
rpm -qa -> This command is used to see the list of all the packa    ges installed in the system (installation packages                              and also the third party packages)  
  
  
rpm -q  -> displays the rpm if it is installed but rpm name  
                           should be accurate  
  
rpm -qa | grep ^ -> This command will query everything realated to a    
    particular package  
  
----------------------------------------------------------------NOTE : Whenever you install any package through rpm that will always go into           either of 2 files in the form of binary  
  
 (1) /usr/bin  
 (2) /usr/sbin  
  
/var/lib/rpm/Packages -> It contains indexing database.  
  
rpm -rebuilddb -initdb -> This command is used to refresh a package.  
  
RPM database -> /var/lib/rpm/Packages  
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rpm -qa | wc -l -> display how many rpms' are installed  
  
rpm -qi  -> This command will query and display rpm's information  
    (remember with this command you need to give only the    package name like ymessenger)  
  
rpm -ql  -> This comaand will query and display the location of                             the package which is installed  
   
    It will show the configuration files .  
    It will show the documentation files.  
    It will query files from where it is extracted.  
  
rpm -qf /etc/passwd -> This command is used to display from which rpm the                              binary has come from  
rpm -qc  -> This command is used to display how many config files                           the rpm has installed  
  
rpm -qd  -> This command is used to display how many document     files the rpm has installed  
  
  
Same as above but pre-installation.  
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(remember with this command you need to give the full package name like          ymessenger-1.0.4-1)  
  
rpm -qip  -> This command will query and display information fo a                            particular package  
  
rpm -qlp  -> This comaand will query and display the location of                             the package which is installed  
   
    It will show the configuration files .  
    It will show the documentation files.  
    It will query files from where it is extracted.  
  
rpm -qdp  -> This command will display how many document files the                           rpm will install  
  
rpm --rebuilddb initdb -> rebuild the database  
  
rpm --querytags  -> query database as per required information  
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Note: - The database file is in /var/lib/rpm/Packages by the name Packages  
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(2) INSTALLING RPM FROM SRPM (SOURCE CODE)  
  
 There are 2 ways of installing from srpm (source code)  
  
 (a) rpm -ivh mp3blaster-3.1.3-1.src.rpm  
  
  --> This command will extract a tar.gz file in the given location  
  --> /usr/src/redhat/SOURCES  
   --> You will find a mp3blaster-3.1.3.tar.gz file in above location.  
  --> You need to extract the tar.gz file and then install it.  
       
 (b) rpmbuild --rebuild mp3blaster-3.1.3.1.src.rpm  
  
  --> This command will extract from source code and convert int rpm and              stored in the given location  
  --> /usr/src/redhat/RPMS/i386  
  
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(3) INSTALLING FROM TARBALL FILES (tar.gz)  
  
 (a) First extract the tar.gz file with the following command  
 --> tar -zxfv mp3blaster-3.1.3.1.tar.gz  
     This command creates a folder in the same location  
   
 (b) cd mp3blaster  
   
 (c) vi README / INSTALL  
 --> This files are the help files.  
      
 (d) To install  
 --> It must be installed from by the given 3 commands  
  
 (i)./configure  
 (ii) make  
 (iii) make install  
  
 (i) ./configure  
 --> This command will check for dependencies  
  
 (ii) make  
 --> This command will compile into binary  
   
 (iii) make install  
 --> This command will install a compiled binary  
  
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(4) UNINSTALLING THROUGH TARBALL  
  
 To uninstall through tarball u need to do 2 steps  
  
 (a) Change the directory to mp3blaster  
  
 (b) make uninstall  
 --> this command will uninstall the mp3blaster rpm  
  
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(5) HOW TO CREATE A RPM FROM SOURCE CODE  
  
 To create a rpm from source code u need to follow the following steps  
  
 (a) Copy file mp3blaster-3.1.3.2.tar.gz to following location  
 --> /usr/src/redhat/SOURCES  
  
 (b) You need to extract thsi tar.gz file to some location for temporary             purpose because u need to copy a file in it called mp3blaster.spec              (/root)  
  
 (c) Then change directory to  
 --> cd /root/mp3blaster  
   
 (d) cp -v mp3blaster.spec /usr/src/redhat/SPECS  
  
 (e) Again chande directory to  
 --> /usr/src/redhat/SPECS  
  
 (f) vi mp3blaster.spec  
 --> In this file you can edit the information you want to.  
  
 (g) rpmbuild -ba mp3blaster.spec  
   
 -ba --> this is used for specification file  
 --> This command will create or build an rpm in following locations  
 --> /usr/src/redhat/SRPMS/mp3blaster.src.rpm (for source code)  
 --> /usr/src/redhat/RPMS/i386/mp3blaster.rpm (for rpm installation)  
  
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# [YUM SERVER](http://shabbathster.blogspot.com/2014/07/yum-server.html)

### YUM SERVER

#################### **Y U M   S E R V E R** ####################

[root@server~]#vi /etc/hosts

192.168.10.253 server.example.com server

[root@server~]#rpm -qa | grep yum #require packages

yum-3.0.1-5.el5

yum-metadata-parser-1.0-8.fc6

yum-rhn-plugin-0.4.3-1.el5

yum-updatesd-3.0.1-5.el5

[root@server~]#rpm -qa | grep createrepo

createrepo-0.4.4-2.fc6 # To create repository

[root@server~]#rpm -qa | grep vsftpd #FTP service for yum server

vsftpd-2.0.5-10.el5

#service vsftpd restart

#chkconfig vsftpd on

> Now mount RHEL- CD/DVD into /mnt folder

[root@server~]#mount /dev/cdrom /mnt OR U can Copy all rpm in pub directory

> Copy Server directory from /mnt and paste into /var/ftp/pub directory.

[root@server~]#cp -ar /mnt/Server  /var/ftp/pub

> Edit /etc/yum.repos.d/rhel-debuginfo.repo  file and modify as given bellow:

[root@server~]#vi /etc/yum.repos.d/rhel-debuginfo.repo

[rhel-debuginfo]

name=Red Hat Enterprise Linux $releasever - $basearch - Debug

baseurl=ftp://server.example.com/pub/Server

enabled=1

gpgcheck=0

> Now create repositoy fo packages.

[root@server~]#createrepo -v /var/ftp/pub/Server

Note: It will take long time depends upon rpm packages and performance of machine.

> After repository created, It may be prompt for error that "remove .olddata directory manually"

[root@server~]#rm -rf /var/ftp/pub/Server/.olddata

> Everything done well then try to use yum utility by using yum command.

(Note: If allready yum is configured and you are configuring new yum server

then use #yum clean all  command)

[root@server~]#yum list #list rmp repository

[root@server~]#yum info vsftpd #Provide information about package

[root@server~]#yum install bind #To install packages

[root@server~]#yum install http\*

[root@server~]#yum remove bind #To remove packages

#################### Y U M   S E R V E R ####################

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#################### Y U M   C L I E N T ####################

> Make sure that vsftpd package is installed.

:> Suppose client is client.example.com

[root@client~]#rpm -qa | grep vsftpd

#service vsftpd restart

#chkconfig vsftpd on

> Edit /etc/yum.repos.d/rhel-debuginfo.repo  file and modify as given bellow:

[root@client~]#vi /etc/yum.repos.d/rhel-debuginfo.repo

[rhel-debuginfo]

name=Red Hat Enterprise Linux $releasever - $basearch - Debug

baseurl=ftp://server.example.com/pub/Server

enabled=1

gpgcheck=0

[root@client~]#yum list

#################### Y U M   C L I E N T ####################

# [Yum repository](http://shabbathster.blogspot.com/2014/08/yum-repository.html)

Yum Repository (Yellow dog Updater)

1) mount /dev/cdrom  /mnt

2)touch /data

3)rsync -prav /mnt/CentOS/   /data

4)rpm -ivh /mnt/CentOS/Createrepo-0.4.11.3.el5.noarch.rpm

5)Createrepo /data

6)cd  /etc/yum.repos.d/

7)touch local.repo

8)vi local.repo

ENtry,

[local]

name=local

baseurl=file:///data/

enabled=1

gpgcheck=0

:wq

9)yum install samba