Creating Local YUM Repository in RHEL 7.x

This tells about how to create local YUM repository in red hat enterprise Linux let's move on..

Step1:

Open terminal and check for Repo by entering following command.

Yum repolist

```
[root@gurubhat /]# yum repolist
Loaded plugins: langpacks, product-id, search-disabled-repos, subscription-manager
This system is not registered to Red Hat Subscription Management. You can use subscription-manager to register.
repolist: 0
[root@gurubhat /]# []
```

Here you can see right now there is no repo I mean 0 repolist , so we need to create local repo lets begin.

Step2:

copy OS image file to one directory else if you are connected to **dvd** drive which has installation **dvd** then follow the further steps..

```
[root@gurubhat /]# cd /rhel/
[root@gurubhat rhel]# ls
rhel-server-7.2-x86_64-dvd.iso
[root@gurubhat rhel]#
```

I copied ISO file to **rhel** directory as above

Step3:

Create new directory.

```
[root@gurubhat /]# mkdir redhat7
[root@gurubhat /]#
```

You can check by entering **ls** command as follows.

```
[root@gurubhat /]# ls
bin  boot  dev  etc  home  lib  lib64  media  mnt  opt  proc  redhat7  rhel  root  run  sbin  srv  sys  tmp  usr  var
[root@gurubhat /]#
```

Step4:

Mount the directory which your ISO file exists to the newly created directory that is **redhat7** as follows..

```
[root@gurubhat /]# mount -o loop /rhel/rhel-server-7.2-x86_64-dvd.iso /redhat7/
mount: /dev/loop0 is write-protected, mounting read-only
[root@gurubhat /]#
```

Change directory to redhat7 and check everything is ok and here you will find some files and packages as follows.

```
[root@gurubhat /]# cd redhat7/
[root@gurubhat redhat7]# ls
addons   images       Packages                 RPM-GPG-KEY-redhat-release
EFI      isolinux     release-notes            TRANS.TBL
EULA     LiveOS       repodata
GPL      media.repo   RPM-GPG-KEY-redhat-beta
[root@gurubhat redhat7]#
```

Again change the directory to Packages .

```
[root@gurubhat redhat7]# cd Packages/
[root@gurubhat Packages]#
```

Enter **ls** commands to view the packages.

```
[root@gurubhat Packages]# ls
```

```
xrestop-0.4-14.el7.x86_64.rpm
xsane-common-0.999-9.el7.x86_64.rpm
xsane-gimp-0.999-9.el7.x86_64.rpm
xsettings-kde-0.12.3-7.el7.x86_64.rpm
xsom-0-10.20110809svn.el7.noarch.rpm
xterm-295-3.el7.x86_64.rpm
xulrunner-31.6.0-2.el7_1.i686.rpm
xulrunner-31.6.0-2.el7_1.x86_64.rpm
xvattr-1.3-27.el7.x86_64.rpm
xz-5.1.2-12alpha.el7.x86_64.rpm
xz-devel-5.1.2-12alpha.el7.i686.rpm
xz-devel-5.1.2-12alpha.el7.x86_64.rpm
xz-libs-5.1.2-12alpha.el7.i686.rpm
xz-libs-5.1.2-12alpha.el7.x86_64.rpm
yajl-2.0.4-4.el7.i686.rpm
yajl-2.0.4-4.el7.x86_64.rpm
yelp-3.14.2-1.el7.x86_64.rpm
yelp-libs-3.14.2-1.el7.i686.rpm
yelp-libs-3.14.2-1.el7.x86_64.rpm
yelp-xsl-3.14.0-1.el7.noarch.rpm
ypbind-1.37.1-7.el7.x86_64.rpm
ypserv-2.31-8.el7.x86_64.rpm
yp-tools-2.14-3.el7.x86_64.rpm
yum-3.4.3-132.el7.noarch.rpm
```

Step5:

Install some dependent packages for creating local repository as below.

```
[root@gurubhat Packages]# rpm -ivh deltarpm*
warning: deltarpm-3.6-3.el7.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID fd431d51: NOKEY
Preparing...                          ################################# [100%]
        package deltarpm-3.6-3.el7.x86_64 is already installed
[root@gurubhat Packages]#

[root@gurubhat Packages]# rpm -ivh vsftpd*
warning: vsftpd-3.0.2-10.el7.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID fd431d51: NOKEY
Preparing...                          ############################### [100%]
Updating / installing...
   1:vsftpd-3.0.2-10.el7               ############################### [100%]
[root@gurubhat Packages]# rpm -ivh createrepo*
warning: createrepo-0.9.9-23.el7.noarch.rpm: Header V3 RSA/SHA256 Signature, key ID fd431d51: NOKEY
Preparing...                          ################################# [100%]
        package createrepo-0.9.9-23.el7.noarch is already installed
[root@gurubhat Packages]#

[root@gurubhat Packages]# rpm -ivh python-deltarpm*
warning: python-deltarpm-3.6-3.el7.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID fd431d51: NOKEY
Preparing...                          ############################### [100%]
        package python-deltarpm-3.6-3.el7.x86_64 is already installed
[root@gurubhat Packages]#
```

after installing change the directory to /etc/yum.repos.d.

```
[root@gurubhat /]# cd /etc/yum.repos.d
[root@gurubhat yum.repos.d]#
```

Enter **ls** command here you will find right now there is no local repository.

```
[root@gurubhat yum.repos.d]# ls
redhat.repo
[root@gurubhat yum.repos.d]#
```

Step6:

Create local file with extension .repo, here I am using vi editor.

```
[root@gurubhat yum.repos.d]# vi local.repo
```

Edit the file as below.

```
[Local]
name="local.repo"
baseurl=file:///redhat7
enabled=1
gpgcheck=0
~
~
~
```

Here name is your repo name whatever name you can give but extension should be .repo,

Baseurl is nothing but it is the directory which you mounted to iso earlier,

Now lets check repolist

Yum repolist all

```
[root@gurubhat yum.repos.d]# yum repolist all
Loaded plugins: langpacks, product-id, search-disabled-repos, subscription-manager
This system is not registered to Red Hat Subscription Management. You can use subscription-manager to register.
Local                                                                             | 4.1 kB  00:00:00
(1/2): Local/group_gz                                                             | 136 kB  00:00:00
(2/2): Local/primary_db                                                           | 3.6 MB  00:00:00
repo id                                           repo name                                 status
Local                                             "local.repo"                          enabled: 4,620
repolist: 4,620
[root@gurubhat yum.repos.d]#
```

You can see our local repository is create success fully and it is enabled now you can install packages using YUM

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>Thank You<<<<<<<<<<<<<<<<<<<<<<<<<<<