

RHEL: Create a local RPM repository

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Tested on RHEL/CentOS 6 & 7

Mount the installation disk and copy packages from <cdrom>/Packages to a local directory.

I'll use **/depot** as local repository.

Once done, first of all, you have to install createrepo package:

cd /depot

ll *createrepo*

-r--r--r--. 1 root root 93764 Jan 17 01:45

createrepo-0.9.9-23.el7.noarch.rpm

rpm -ihv createrepo-0.9.9-23.el7.noarch.rpm

warning: createrepo-0.9.9-23.el7.noarch.rpm: Header V3 RSA/SHA256

Signature, key ID f4a80eb5: NOKEY

error: Failed dependencies:

deltarpm is needed by createrepo-0.9.9-23.el7.noarch

libxml2-python is needed by createrepo-0.9.9-23.el7.noarch

python-deltarpm is needed by

createrepo-0.9.9-23.el7.noarch

rpm -ihv createrepo-0.9.9-23.el7.noarch.rpm

deltarpm-3.6-3.el7.x86_64.rpm

libxml2-python-2.9.1-5.el7_1.2.x86_64.rpm python-

deltarpm-3.6-3.el7.x86_64.rpm

warning: createrepo-0.9.9-23.el7.noarch.rpm: Header V3 RSA/SHA256

Signature, key ID f4a80eb5: NOKEY

Preparing...

```
##### [100%]
    Updating / installing...
        1:deltarpm-3.6-3.el7
##### [ 25%]
        2:python-deltarpm-3.6-3.el7
##### [ 50%]
        3:libxml2-python-2.9.1-5.el7_1.2
##### [ 75%]
        4:createrepo-0.9.9-23.el7
##### [100%]
```

Next, while being under /depot, run following command in order to create the repository:

createrepo .

```
    Spawning worker 0 with 3705 pkgs
    Workers Finished
    Saving Primary metadata
    Saving file lists metadata
    Saving other metadata
    Generating sqlite DBs
    Sqlite DBs complete
```

Now that you have a repo setup, "yum" needs to know about it.
Create a file named
<my_local_depot>.repo under /etc/yum.repos.d directory with
following content:

```
vi /etc/yum.repos.d/my_local_depot
[my_local_depot]
name=my_local_depot
baseurl=file:///depot/
enabled=1
gpgcheck=1
```

```
gpgkey=file:///etc/pki/rpm-gpg/<RPM-GPG-KEY-CentOS-7>
```

```
# * Note: If GPG key is not defined in yum.repos.d file, you'll have
to import a valid key,
# usually under /etc/pki/rpm-gpg, before trying to install any
package, otherwise you'll
# have a message similar to this one:
#
# You have enabled checking of packages via GPG keys. This is a good
thing.
# However, you do not have any GPG public keys installed. You need to
download
# the keys for packages you wish to install and install them.
# You can do that by running the command:
# rpm --import public.gpg.key
#
# Alternatively you can specify the url to the key you would like to
use
# for a repository in the 'gpgkey' option in a repository section and
yum
# will install it for you.
#
# For more information contact your distribution or package provider.
# The Project GPG keys are included in the centos-release package,
and are typically
# found in /etc/pki/rpm-gpg
```

```
# To import a GPG key do this:
```

```
find / -name "*RPM-GPG*"
```

```
  /etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-Testing-7
  /etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7
  /etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-Debug-7
```

```
rpm --import /etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7
```

```
# To test, run a "yum" command. It should be pulling information
about packages from the
# local repository (for practical reasons, I've disabled all other
default repositories
# by renaming /etc/yum.repos.d/*.repo files to
/etc/yum.repos.d/*.repo.orig):
```

```
cd /etc/yum.repos.d/
```

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```
total 32
-rw-r--r--. 1 root root 1664 Dec  9 10:59 CentOS-Base.repo.orig
-rw-r--r--. 1 root root 1309 Dec  9 10:59 CentOS-CR.repo.orig
-rw-r--r--. 1 root root  649 Dec  9 10:59 CentOS-
Debuginfo.repo.orig
-rw-r--r--. 1 root root  290 Dec  9 10:59 CentOS-
fasttrack.repo.orig
-rw-r--r--. 1 root root  630 Dec  9 10:59 CentOS-Media.repo.orig
-rw-r--r--. 1 root root 1331 Dec  9 10:59 CentOS-Sources.repo.orig
-rw-r--r--. 1 root root 1952 Dec  9 10:59 CentOS-Vault.repo.orig
-rw-r--r--. 1 root root  81 Jan 17 02:10 my_local_depot.repo
```

```
yum list mlocate
```

```
Loaded plugins: fastestmirror
my_local_depot
                | 2.9 kB  00:00:00
my_local_depot/primary_db
                | 2.8 MB  00:00:00
Loading mirror speeds from cached hostfile
Available Packages
mlocate.x86_64
0.26-5.el7
my_local_depot
<---
```

Now, packages are found on (and can be installed from) local repository

yum install mlocate

Loaded plugins: fastestmirror

Loading mirror speeds from cached hostfile

Resolving Dependencies

--> Running transaction check

---> Package mlocate.x86_64 0:0.26-5.el7 will be installed

--> Finished Dependency Resolution

Dependencies Resolved

```
=====
=====
Package           Arch           Version
Repository         Size
=====
=====
Installing:
  mlocate           x86_64         0.26-5.el7
my_local_depot     112 k    <---
=====
```

Transaction Summary

```
=====
=====
Install 1 Package

Total download size: 112 k
Installed size: 378 k
Is this ok [y/d/N]: y
Downloading packages:
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
```

Warning: RPMDB altered outside of yum.

Installing : mlocate-0.26-5.el7.x86_64

1/1

Verifying : mlocate-0.26-5.el7.x86_64

1/1

Installed:

mlocate.x86_64 0:0.26-5.el7

Complete!

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