

# 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
```



# 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
<b>my_local_depot</b>	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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