Create your own rpm binary using rpmdevtools

Instructions

Create your own rpm binary using rpmdevtools. Refer below steps

Install rpmdevtools and rpmlint
1. sudo yum install -y rpmdevtools rpmlint
A:

```
[pranay@localhost ~]$ sudo yum install -y rpmdevtools rpmlint
[sudo] password for pranay:
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: centos.excellmedia.net
 * extras: centos.excellmedia.net
 * updates: centos.excellmedia.net
base                                                              | 3.6 kB  00:00:00
extras                                                            | 2.9 kB  00:00:00
mysql-connectors-community                                       | 2.6 kB  00:00:00
mysql-tools-community                                            | 2.6 kB  00:00:00
mysql57-community                                                | 2.6 kB  00:00:00
nginx                                                            | 2.9 kB  00:00:00
updates                                                          | 2.9 kB  00:00:00
updates/7/x86_64/primary_db                                      |  21 MB  00:00:23
Resolving Dependencies
--> Running transaction check
---> Package rpmdevtools.noarch 0:8.3-8.el7_9 will be installed
--> Processing Dependency: rpm-build >= 4.4.2.3 for package: rpmdevtools-8.3-8.el7_9.noarch
--> Processing Dependency: emacs-filesystem for package: rpmdevtools-8.3-8.el7_9.noarch
---> Package rpmlint.noarch 0:1.5-4.el7 will be installed
--> Processing Dependency: desktop-file-utils for package: rpmlint-1.5-4.el7.noarch
--> Running transaction check
---> Package desktop-file-utils.x86_64 0:0.23-2.el7 will be installed
---> Package emacs-filesystem.noarch 1:24.3-23.el7 will be installed
---> Package rpm-build.x86_64 0:4.11.3-48.el7_9 will be installed
```

2. Run rpmdev-setuptree
3. create a welcome.sh file and type echo "Welcome to Linux"
4. mkdir welcome-0.0.1
5. mv welcome.sh welcome-0.0.1
A:

```
[pranay@localhost ~]$ rpmdev-setuptree
[pranay@localhost ~]$ sudo touch welcome.sh
[sudo] password for pranay:
[pranay@localhost ~]$ echo "welcome to linux"
welcome to linux
[pranay@localhost ~]$ sudo mkdir welcome-0.0.1
[pranay@localhost ~]$ sudo mv welcome.sh welcome-0.0.1
```

6. Run tar --create --file welcome-0.0.1.tar.gz welcome-0.0.1
7. mv welcome-0.0.1.tar.gz ~/rpmbuild/SOURCES
8. create welcome.spec file rpmdev-newspec welcome
9. mv welcome.spec ~/rpmbuild/SPECS/10. rpmlint ~/rpmbuild/SPECS/welcome.spec
A:

```
[pranay@localhost ~]$ tar --create --file welcome-0.0.1.tar.gz welcome-0.0.1
[pranay@localhost ~]$ mv welcome-0.0.1.tar.gz~/rpmbuild/SOURCES
mv: missing destination file operand after 'welcome-0.0.1.tar.gz~/rpmbuild/SOURCES'
Try 'mv --help' for more information.
[pranay@localhost ~]$ mv welcome-0.0.1.tar.gz /rpmbuild/SOURCES
mv: cannot move 'welcome-0.0.1.tar.gz' to '/rpmbuild/SOURCES': No such file or directory
[pranay@localhost ~]$ mv welcome-0.0.1.tar.gz ~/rpmbuild/SOURCES
[pranay@localhost ~]$ rpmdev-newspec welcome
welcome.spec created; type minimal, rpm version >= 4.11.
[pranay@localhost ~]$ mv welcome.spec ~/rpmbuild/SPECS/
[pranay@localhost ~]$ sudo vi ~/rpmbuild/SPECS/welcome.spec
[sudo] password for pranay:
[pranay@localhost ~]$
```

10. Rpmlint ~/rpmbuild/SPECS/welcome.spec

11. rpmbuild -bs ~/rpmbuild/SPECS/welcome.spec

12. rpmbuild -bb ~/rpmbuild/SPECS/welcome.spec

A:

```
[pranay@localhost ~]$ rpmlint ~/rpmbuild/SPECS/welcome.spec
/home/pranay/rpmbuild/SPECS/welcome.spec: W: no-%build-section
/home/pranay/rpmbuild/SPECS/welcome.spec: W: invalid-url Source0: welcome-0.0.1.tar.gz
0 packages and 1 specfiles checked; 0 errors, 2 warnings.
[pranay@localhost ~]$ rpmbuild-bs ~/rpmbuild/SPECS/welcome.spec
-bash: rpmbuild-bs: command not found
[pranay@localhost ~]$ rpmbuild -bs ~/rpmbuild/SPECS/welcome.spec
Wrote: /home/pranay/rpmbuild/SRPMS/welcome-0.0.1-1.el7.src.rpm
[pranay@localhost ~]$ rpmbuild -bb ~/rpmbuild/SPECS/welcome.spec
Executing(%prep): /bin/sh -e /var/tmp/rpm-tmp.RRigyv
+ umask 022
+ cd /home/pranay/rpmbuild/BUILD
+ cd /home/pranay/rpmbuild/BUILD
+ rm -rf welcome-0.0.1
+ /usr/bin/tar -xf /home/pranay/rpmbuild/SOURCES/welcome-0.0.1.tar.gz
+ cd welcome-0.0.1
```

13. cp/"your home directory"/rpmbuild/RPMS/noarch/"your noarch.rpm file" /opt

14. sudo rpm -ivh ~/rpmbuild/RPMS/noarch/"your noarch.rpm file"

To verify

1.rpm -qi welcome

A:

```
[pranay@localhost ~]$ sudo cp ~/rpmbuild/RPMS/noarch/welcome-0.0.1-1.el7.noarch.rpm /opt
[sudo] password for pranay:
[pranay@localhost ~]$ sudo rpm -ivh ~/rpmbuild/RPMS/noarch/welcome-0.0.1-1.el7.noarch.rpm
Preparing...                          ################################# [100%]
Updating / installing...
   1:welcome-0.0.1-1.el7             ################################# [100%]
[pranay@localhost ~]$ rpm-qi welcome
-bash: rpm-qi: command not found
[pranay@localhost ~]$ rpm -qi welcome
Name        : welcome
Version     : 0.0.1
Release     : 1.el7
Architecture: noarch
Install Date: Sat 03 Jun 2023 02:09:04 AM UTC
Group       : Unspecified
Size        : 0
License     : GPL
Signature   : (none)
Source RPM  : welcome-0.0.1-1.el7.src.rpm
Build Date  : Sat 03 Jun 2023 01:58:52 AM UTC
Build Host  : localhost
Relocations : (not relocatable)
Summary     : A simple welcome script
Description :

A demo RPM build
[pranay@localhost ~]$
```

2.chmod 777 /usr/bin/welcome.sh

3.Run/usr/bin/welcome.sh

A:

```
[pranay@localhost ~]$ sudo chmod 777 /usr/bin/welcome.sh
[pranay@localhost ~]$ sudo /usr/bin/welcome.dh
sudo: /usr/bin/welcome.dh: command not found
[pranay@localhost ~]$ sudo /usr/bin/welcome.sh
```

```
[pranay@localhost bin]$ bash ./welcome.sh
welcome to linux
[pranay@localhost bin]$
```