

How To Download A RPM Package With All Dependencies In CentOS

The other day I was trying to create a local repository with packages only we use often in CentOS 7. Of course we can download any package using curl or wget commands. These commands however won't download the required dependencies. You have to spend some time and manually search and download the dependencies required by the package to install. Well, not anymore. In this brief tutorial, I will walk you through how to download a RPM package with all dependencies in two methods. I tested this guide on CentOS 7, although the same steps may work on other RPM based systems such as RHEL, Fedora and Scientific Linux.

Method 1 - Download A RPM Package With All Dependencies Using "Downloadonly" plugin

We can easily download any RPM package with all dependencies using "Downloadonly" plugin for yum command.

To install Downloadonly plugin, run the following command as root user.

```
# yum install yum-plugin-downloadonly -y
```

Now, run the following command to download a RPM package.

```
# yum install --downloadonly <package-name>
```

By default, this command will download and save the packages in `/var/cache/yum/` in `rhel-{arch}-channel/packages` location. However, you can download and save the packages in any location of your choice using `--downloadonly --downloadonlydir=<directory>` option.

```
# yum install --downloadonly --downloadonlydir=<directory> <package-name>
```

Example:

```
# yum install --downloadonly --downloadonlydir=/root/mypackages/ httpd
```

```
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
* base: centos.excellmedia.net
* epel: epel.mirror.angkasa.id
* extras: centos.excellmedia.net
* updates: centos.excellmedia.net
Resolving Dependencies
--> Running transaction check
```

```
--> Package httpd.x86_64 0:2.4.6-40.el7.centos.4 will be installed
--> Processing Dependency: httpd-tools = 2.4.6-40.el7.centos.4 for package:
httpd-2.4.6-40.el7.centos.4.x86_64
--> Processing Dependency: /etc/mime.types for package:
httpd-2.4.6-40.el7.centos.4.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package:
httpd-2.4.6-40.el7.centos.4.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package:
httpd-2.4.6-40.el7.centos.4.x86_64
--> Running transaction check
---> Package apr.x86_64 0:1.4.8-3.el7 will be installed
---> Package apr-util.x86_64 0:1.5.2-6.el7 will be installed
---> Package httpd-tools.x86_64 0:2.4.6-40.el7.centos.4 will be installed
---> Package mailcap.noarch 0:2.1.41-2.el7 will be installed
--> Finished Dependency Resolution
```

Dependencies Resolved

```
=====
=====
Package Arch Version Repository Size
=====
```

```
Installing:
httpd x86_64 2.4.6-40.el7.centos.4 updates 2.7 M
Installing for dependencies:
apr x86_64 1.4.8-3.el7 base 103 k
apr-util x86_64 1.5.2-6.el7 base 92 k
httpd-tools x86_64 2.4.6-40.el7.centos.4 updates 83 k
mailcap noarch 2.1.41-2.el7 base 31 k
```

Transaction Summary

```
=====
=====
Install 1 Package (+4 Dependent packages)

Total download size: 3.0 M
Installed size: 10 M
Background downloading packages, then exiting:
(1/5): apr-1.4.8-3.el7.x86_64.rpm | 103 kB 00:00:01
(2/5): apr-util-1.5.2-6.el7.x86_64.rpm | 92 kB 00:00:01
(3/5): mailcap-2.1.41-2.el7.noarch.rpm | 31 kB 00:00:01
(4/5): httpd-tools-2.4.6-40.el7.centos.4.x86_64.rpm | 83 kB 00:00:01
(5/5): httpd-2.4.6-40.el7.centos.4.x86_64.rpm | 2.7 MB 00:00:09
-----
-----
Total 331 kB/s | 3.0 MB 00:00:09
exiting because "Download Only" specified
rootserver1_001
```

Now go the location that you specified in the above command. You will see there the downloaded package with all dependencies. In my case, I have downloaded the packages in /root/mypackages/ directory.

Let us verify the contents.

```
# ls /root/mypackages/
```

```
apr-1.4.8-3.el7.x86_64.rpm  
apr-util-1.5.2-6.el7.x86_64.rpm  
httpd-2.4.6-40.el7.centos.4.x86_64.rpm  
httpd-tools-2.4.6-40.el7.centos.4.x86_64.rpm  
mailcap-2.1.41-2.el7.noarch.rpm  
rootserver1_003
```

As you see in the above output, the package httpd has been downloaded with all dependencies.

Last update: **2018/01/26 11:16**