

CentOS 利用 Yum 下载软件包

需求:

假如需要下载某些 rpm 软件包,但这些 rpm 软件包已经很难找到下载资源并且很多是存在依赖包,一个一个下载很麻烦,但很多网络 yum 源是可以直接在线安装,如果用户需要是把 rpm 软件包和依赖包一并下载,这时,使用网络 yum 源下载 rpm 软件包最为方便。

Yum 下载软件包有两种方法:(本教程以阿里云 Yum 源为下载 RPM 软件包)

Linux System Environment

[root@yumserver ~]cat /etc/redhat-release	===》系统版本
CentOS Linux release 7.5.1804 (Core)	
[root@yumserver ~]uname -r	===》内核版本
3.10.0-862.el7.x86_64	
[root@yumserver ~]uname -m	===》系统架构
x86_64	
[root@yumserver ~]echo \$LANG	===》系统字符集
en_US.UTF-8	

方法一、使用 yum 源的 downloadonly 插件 (Yum 工具自带此插件)

提示:此方法会把 RPM 软件包和相关的依赖包一并下载,但本地系统不会安装下载的软件,推荐使用此方法。

1、配置阿里云 Yum 源

```
curl -o /etc/yum.repos.d/CentOS-Base.repo http://mirrors.aliyun.com/repo/Centos-7.repo
curl -o /etc/yum.repos.d/epel.repo http://mirrors.aliyun.com/repo/epel-7.repo
yum makecache
```

2、使用 yum 源命令下载 createrepo 软件包并指定路径

```

[root@yumserver ~]# mkdir -p /tmp/yum
[root@yumserver ~]# yum -y install createrepo --downloadonly --downloadaddir=/tmp/yum
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
* base: mirrors.aliyun.com
* extras: mirrors.aliyun.com
* updates: mirrors.aliyun.com
Resolving Dependencies
--> Running transaction check
---> Package createrepo.noarch 0:0.9.9-28.el7 will be installed
--> Processing Dependency: python-deltarpm for package: createrepo-0.9.9-28.el7.noarch
--> Processing Dependency: deltarpm for package: createrepo-0.9.9-28.el7.noarch
--> Running transaction check
---> Package deltarpm.x86_64 0:3.6-3.el7 will be installed
---> Package python-deltarpm.x86_64 0:3.6-3.el7 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
=====
Package                               Arch                               Version
Repository                            Size
=====
=====
Installing:
 createrepo                           noarch                           0.9.9-28.el7          base
94 k
Installing for dependencies:
 deltarpm                             x86_64                           3.6-3.el7             base
82 k
 python-deltarpm                     x86_64                           3.6-3.el7             base
31 k

Transaction Summary
=====
=====
Install  1 Package (+2 Dependent packages)

Total download size: 207 k
Installed size: 558 k
Background downloading packages, then exiting:
(1/3): createrepo-0.9.9-28.el7.noarch.rpm | 94 kB
00:00:00

```

```

(2/3): deltarpm-3.6-3.el7.x86_64.rpm | 82 kB
00:00:00
(3/3): python-deltarpm-3.6-3.el7.x86_64.rpm | 31 kB
00:00:00
-----
Total 1.8 MB/s | 207
kB 00:00:00
exiting because "Download Only" specified
[root@yumserver ~]# ls -lrth /tmp/yum
total 212K
-rw-r--r-- 1 root root 83K Jul 4 2014 deltarpm-3.6-3.el7.x86_64.rpm
-rw-r--r-- 1 root root 32K Jul 4 2014 python-deltarpm-3.6-3.el7.x86_64.rpm
-rw-r--r-- 1 root root 94K Aug 10 2017 createrepo-0.9.9-28.el7.noarch.rpm

```

方法二：利用 Yum 工具缓存功能

提示：此方法会把 RPM 软件包和相关的依赖包一并下载，并且本地系统会把下载的软件包一并安装。

1、配置阿里云 Yum 源

```

curl -o /etc/yum.repos.d/CentOS-Base.repo http://mirrors.aliyun.com/repo/Centos-7.repo
curl -o /etc/yum.repos.d/epel.repo http://mirrors.aliyun.com/repo/epel-7.repo
yum makecache

```

2、/etc/yum.conf 配置文件参数说明

```

[root@yumserver ~]# cat /etc/yum.conf
[main]
cachedir=/var/cache/yum/$basearch/$releasever  ##指定 yum 缓存的 RPM 软件包
keepcache=0  ##1 保存已安装的 RPM 软件包，0 不保存
debuglevel=2  ##调试级别（0-10）
logfile=/var/log/yum.log  ##记录 yum 下载的软件包记录
exactarch=1
obsoletes=1
gpgcheck=1  ##是否密钥检查
plugins=1
installonly_limit=5
bugtracker_url=http://bugs.centos.org/set_project.php?project_id=23&ref=http://bugs.centos.org/bug_report_page.php?category=yum
distroverpkg=centos-release

```

3、修改/etc/yum.conf 配置文件将 keepcache=0 改成 keepcache=1，保存退出

```
[root@yumserver ~]# sed -i 's/keepcache=0/keepcache=1/g' /etc/yum.conf
[root@yumserver ~]# cat /etc/yum.conf | grep keepcache
keepcache=1
[root@yumserver ~]# systemctl daemon-reload
[root@yumserver ~]# yum makecache
[root@yumserver ~]# rpm -qa | grep createrepo
[root@yumserver ~]# yum -y install createrepo
[root@yumserver ~]# ls -lrth /var/cache/yum/x86_64/7/base/packages/
total 212K
-rw-r--r-- 1 root root 83K Jul  4  2014 deltarpm-3.6-3.el7.x86_64.rpm
-rw-r--r-- 1 root root 32K Jul  4  2014 python-deltarpm-3.6-3.el7.x86_64.rpm
-rw-r--r-- 1 root root 94K Aug 10  2017 createrepo-0.9.9-28.el7.noarch.rpm
[root@yumserver ~]# rpm -qa | grep createrepo
createrepo-0.9.9-28.el7.noarch
```