Centos7 离线安装包及依赖下载安装

以 nginx 为例,如果你想要将 nginx 的包和缺失依赖下载到一个指定的目录(如 /tmp)以备在相同环境的离线机器上安装使用,你可以使用以下命令:

yum install --downloadonly --downloaddir=./ nginx

不过 yum 获取依赖的判断依据是以所在服务器当前情况为准的。如果需要下载的包依赖 A, B, C. 而所在服务器有 B, 则只下载 A, C。所以非常适合在容器环境使用。

rpm 安装包

暴力安装当前目录下所有的包, 忽略依赖顺序, 简单又省事

rpm -ivh --force *.rpm

因为下载的时候拥有所有包的依赖关系,安装的时候即使不按照顺序来也能达到同样的效果.

yum本地包的获取与安装

yum包安装

需要在无外网服务器上用yum安装软件

分为两步走:

- 产生包
- 使用包

产生包

下载安装 yum-utils , yum install -y yum-utils

方法有三:

方法一: repotrack

下载依赖到当前目录

 $\verb"repotrack" httpd php subversion mod_dav_svn"$

repotrack不仅能下载包的依赖,还会下载依赖所需要的依赖

方法二: yumdownloader

yumdownloader httpd php subversion mod_dav_svn

指定目录(不指定为当前目录)

```
yumdownloader --destdir=/apps/yumtmp/downloader httpd php subversion mod_dav_svn
# 下载包时,同时下载相关依赖
yumdownloader --resolve --destdir=/apps/yumtmp/downloader httpd php subversion mod_dav_svn
```

yumdownloader 只下载包的依赖

方法三: yum指定downloadonly

1. 修改配置文件, 以便yum下载时产生包

vim /etc/yum.conf

keepcache=1

2. 下载软件, 并生成包

```
yum install --downloadonly httpd php subversion mod_dav_svn
yum install --downloadonly --downloaddir=/tmp/yumpackages httpd php subversion mod dav svn
```

yum 指定downloadonly和 yumdownloader 都可以获取包.

不过,前者获取依赖的判断依据,是以所在服务器当前情况为准的. 如果需要下载的包依赖A,B,C. 而所在服务器有B,则只下载A,C.

3. 找到包

- # 安装包
- # /var/cache/yum/x86_64/7/base/packages
 /var/cache/yum/base/packages
- # 更新包

/var/cache/yum/updates/packages

使用包

将包拷贝进需要安装的内网, 调用安装.

方法有以下几种:

方法一: yum -C install

把下载的包,拷贝进缓存包的默认目录 /var/cache/yum/base/packages

使用命令 yum -C install [packageName] 从缓存中安装包

方法二: yum localinstall

直接指定本地包的文件

安装当前目录下所有的包

yum localinstall *.rpm

方法三: rpm -ivh --force

暴力安装当前目录下所有的包, 忽略依赖顺序, 简单又省事

rpm -ivh --force *.rpm

因为下载的时候拥有所有包的依赖关系,安装的时候即使不按照顺序来也能达到同样的效果.

分类: Linux OS

标签: Linux

posted @ 2021-06-29 09:59 Jrri 阅读(2036) 评论(0) 编辑 收藏 举报

Centos离线安装软件包方法



服务器

文章标签: centos

linux

Centos离线安装软件包方法

我们平时安装软件包是通过 yum 在线进行安装的,若是在某些连不上外网的环境, yum 命令还能有效安装吗?

断开本机网络,这里以安装 Python 3.9 为例,其它软件都同样的操作,观察一下执行 yum install python39 的信息;首先执行 yum install python39,的确,在缓 存的帮助下, yum 命令很快就知道 Python39 及其所需要依赖包的状况:

			Repository
nstalling:			
python39	x86_64	3.9.13-1.module_el8.7.0+1178+0ba51308	appstream
nstalling dependencies:			
python39-libs	x86_64	3.9.13-1.module_el8.7.0+1178+0ba51308	appstream
ython39-pip-wheel	noarch	20.2.4-7.module_el8.6.0+961+ca697fb5	appstream
ython39-setuptools-wheel	noarch	50.3.2-4.module_el8.6.0+930+10acc06f	appstream
nstalling weak dependencies:			
ython39-pip	noarch	20.2.4-7.module_el8.6.0+961+ca697fb5	appstream
ython39-setuptools	noarch	50.3.2-4.module_el8.6.0+930+10acc06f	appstream
abling module streams:			
python39		3.9	
ransaction Summary			

可是这真的表示能够下载了吗?我们在提示信息中输入 y 并回车,看到的信息如下:

版权

Downloading Packages:		
[MIRROR] python39-3.9.13-1.module el8.7.0+1178+0ba51308.x86 64.rpm: Curl error (6): Couldn't resolve host name for https://mirrors.aliyun.com/centos/8-stream/Ap	ppStream/x86 64/os/Packages/python39-3.	9.13-1.mod
ule el8.7.0%2b1178%2b0ba51308.x86 64.rpm [Could not resolve host: mirrors.aliyun.com]		
[MIRROR] python39-libs-3.9.13-1.module el8.7.0+1178+0ba51308.x86 64.rpm: Curl error (6): Couldn't resolve host name for https://mirrors.aliyun.com/centos/8-stre	eam/AppStream/x86 64/os/Packages/pythor	139-libs-3.
9.13-1.module el8.7.0%2b1178%2b0ba51308.x86 64.rpm [Could not resolve host: mirrors.aliyun.com]		
[MIRROR] python39-pip-20.2.4-7.module el8.6.0+961+ca697fb5.noarch.rpm: Curl error (6): Couldn't resolve host name for https://mirrors.aliyun.com/centos/8-stream	n/AppStream/x86 64/os/Packages/python39	9-pip-20.2.
4-7.module el8.6.0%2b961%2bca697fb5.noarch.rpm [Could not resolve host: mirrors.aliyun.com]		
[MIRROR] python39-3.9.13-1.module el8.7.0+1178+0ba51308.x86 64.rpm: Curl error (6): Couldn't resolve host name for https://mirrors.aliyun.com/centos/8-stream/Ap	ppStream/x86 64/os/Packages/python39-3.	9.13-1.mod
ule el8.7.0%2b1178%2b0ba51308.x86 64.rpm [Could not resolve host: mirrors.aliyun.com]		
[MIRROR] python39-libs-3.9.13-1.module el8.7.0+1178+0ba51308.x86 64.rpm: Curl error (6): Couldn't resolve host name for https://mirrors.aliyun.com/centos/8-stre	eam/AppStream/x86 64/os/Packages/pythor	139-libs-3.
9.13-1.module_el8.7.0%2b1178%2b0ba51308.x86_64.rpm [Could not resolve host: mirrors.aliyun.com]		
[MIRROR] python39-pip-20.2.4-7.module el8.6.0+961+ca697fb5.noarch.rpm: Curl error (6): Couldn't resolve host name for https://mirrors.aliyun.com/centos/8-stream	n/AppStream/x86_64/os/Packages/python39	9-pip-20.2.
4-7.module_el8.6.0%2b961%2bca697fb5.noarch.rpm [Could not resolve host: mirrors.aliyun.com]		
[FAILED] python39-3.9.13-1.module el8.7.0+1178+0ba51308.x86_64.rpm: No more mirrors to try - All mirrors were already tried without success		
(2-3/6): python39-libs-3.9.13-1.module_el8.7.0+1178+0ba51308.x86_64.rpm] 901 MB/s 33 kB	00:00 ETA
The downloaded packages were saved in cache until the next successful transaction.		
You can remove cached packages by executing 'yum clean packages'.		
Error: Error downloading packages:		
python39-3.9.13-1.module_el8.7.0+1178+0ba51308.x86_64: Cannot download, all mirrors were already tried without success		
[root@localhost ~l#		

显然,缓存信息只存了包名、依赖信息,并没有缓存真正的安装包,即便配置了阿里云的 yum 源,cache 也是创建不了的,因此,我们需要一种方法,在能连外网的机器上下载安装包,复制到无法连外网的机器来安装,来实现离线安装软件包的目的;

"repotrack" 是一款从 yum 源仓库下载 rpm 包的神器,若是环境中没有 repotrack 命令,可使用 yum install yum-utils 下载,这个软件在能上网的机器上用就够了,现在下载 python39 的依赖包试试,输入如下命令:

repotrack python39

这个命令会在当前目录下载 python39 包的全部依赖,接下来能够看到超长一串 Downloading ???.rpm 的日志:

<pre>[root@localhost test]# repotrack python39</pre>	
Repository extras is listed more than once in the configuration	
CentOS Linux 8 - AppStream	12 kB/s 4.4 kB 00:00
(1/166): platform-python-3.6.8-41.el8.x86 64.rpm	145 kB/s 85 kB 00:00
(2/166): piqz-2.4-4.el8.x86 64.rpm	122 kB/s 79 kB 00:00
(3/166): libmount-2.32.1-28.el8.x86 64.rpm	228 kB/s 234 kB 00:01
(4/166): platform-python-setuptools-39.2.0-6.el8.noarch.rpm	263 kB/s 632 kB 00:02
(5/166): popt-1.18-1.el8.x86 64.rpm	171 kB/s 61 kB 00:00
(6/166): libnghttp2-1.33.0-3.el8 2.1.x86 64.rpm	198 kB/s 77 kB 00:00
(7/166): procps-ng-3.3.15-6.el8.x86 64.rpm	254 kB/s 329 kB 00:01
(8/166): platform-python-pip-9.0.3-20.el8.noarch.rpm	281 kB/s 1.7 MB 00:06
(9/166): libnsl2-1.2.0-2.20180605git4a062cf.el8.x86 64.rpm	129 kB/s 58 kB 00:00
(10/166): publicsuffix-list-dafsa-20180723-1.el8.noarch.rpm	195 kB/s 56 kB 00:00
(11/166): python39-pip-wheel-20.2.4-7.module el8.6.0+961+ca697fb5.noarch.rpm	241 kB/s 1.1 MB 00:04
(12/166): libxkbcommon-0.9.1-1.el8.x86 64.rpm	165 kB/s 116 kB 00:00
(13/166): libpsl-0.20.2-6.el8.x86 64.rpm	148 kB/s 61 kB 00:00
(14/166): libpwquality-1.4.4-3.el\(\overline{8}\).x86 64.rpm	173 kB/s 107 kB 00:00
(15/166): python39-pip-20.2.4-7.module_el8.6.0+961+ca697fb5.noarch.rpm	232 kB/s 1.9 MB 00:08
(16/166): python39-setuptools-wheel-50.3.2-4.module el8.6.0+930+10acc06f.noarch.rpm	219 kB/s 497 kB 00:02
(17/166): python39-setuptools-50.3.2-4.module el8.6.0+930+10acc06f.noarch.rpm	239 kB/s 871 kB 00:03
(18/166): libseccomp-2.5.1-1.el8.x86 64.rpm	155 kB/s 71 kB 00:00
$(19/166)$: libselinux-2.9-5.el8.x86_ $\overline{64}$.rpm	215 kB/s 165 kB 00:00
(20/166): libsemanage-2.9-6.el8.x86_64.rpm	233 kB/s 165 kB 00:00
(21/166): python3-pip-wheel-9.0.3-20.el8.noarch.rpm	278 kB/s 1.0 MB 00:03
(22/166): libsepol-2.9-3.el8.x86_64.rpm	265 kB/s 340 kB 00:01
(23/166): libsigsegv-2.11-5.el8.x86_64.rpm	54 kB/s 30 kB 00:00
(24/166): libsmartcols-2.32.1-28.el8.x86_64.rpm	213 kB/s 177 kB 00:00
(25/166): acl-2.2.53-1.el8.x86_64.rpm	166 kB/s 81 kB 00:00
(26/166): gmp-6.1.2-10.el8.x86_64.rpm	244 kB/s 322 kB 00:01
(27/166): libssh-0.9.4-3.el8.x86_64.rpm	229 kB/s 215 kB 00:00
(28/166): libssh-config-0.9.4-3.el8.noarch.rpm	95 kB/s 19 kB 00:00
(29/166): python3-setuptools-wheel-39.2.0-6.el8.noarch.rpm	218 kB/s 289 kB 00:01
(30/166): python39-libs-3.9.13-1.module_el8.7.0+1178+0ba51308.x86_64.rpm	262 kB/s 8.2 MB 00:31
(31/166): gnutls-3.6.16-4.el8.x86_64.rpm	272 kB/s 1.0 MB 00:03
(32/166): grep-3.1-6.el8.x86_64.rpm	248 kB/s 274 kB 00:01
(33/166): audit-libs-3.0-0.17.20191104git1c2f876.el8.x86_64.rpm	184 kB/s 116 kB 00:00
(34/166): grub2-common-2.02-106.el8.noarch.rpm	260 kB/s 891 kB 00:03
(35/166): grub2-tools-minimal-2.02-106.el8.x86_64.rpm	215 kB/s 210 kB 00:00
(36/166): grubby-8.40-42.el8.x86_64.rpm	151 kB/s 49 kB 00:00
(37/166): libstdc++-8.5.0-4.el8_5.x86_64.rpm	255 kB/s 453 kB 00:01
(38/166): gzip-1.9-12.el8.x86_64.rpm	242 kB/s 167 kB 00:00
(39/166): hardlink-1.3-6.el8.x86_64.rpm	115 kB/s 29 kB 00:00
(40/166): basesystem-11-5.el8.noarch.rpm	40 kB/s 10 kB 00:00
(41/166): grub2-tools-2.02-106.el8.x86_64.rpm	280 kB/s 2.0 MB 00:07

命令执行^Q 完成后,看一下是否下载了全部的依赖包:

[root@localhost test]# ls acl-2.2.53-1.el8.x86 64.rpm hardlink-1.3-6.el8.x86 64.rpm lz4-libs-1.8.3-3.el8 4.x86 64.rpm udit-libs-3.0-0.17.20191104git1c2f876.el8.x86 64.rpm info-6.5-6.el8.x86 64.rpm memstrack-0.1.11-1.el8.x86 64.rpm ison-c-0.13.1-2.el8.x86 64.rpm asesystem-11-5.el8.noarch.rpm mpfr-3.1.6-1.el8.x86 64.rpm oash-4.4.20-2.el8.x86_64.rpm ncurses-6.1-9.20180224.el8.x86 64.rpm kbd-2.0.4-10.el8.x86 64.rpm brotli-1.0.6-3.el8.x86 64.rpm kbd-legacy-2.0.4-10.el8.noarch.rpm kbd-misc-2.0.4-10.el8.noarch.rpm ncurses-base-6.1-9.20180224.el8.noarch.rpm bzip2-libs-1.0.6-26.el8.x86 64.rpm ncurses-libs-6.1-9.20180224.el8.x86 64.rpm ca-certificates-2021.2.50-80.0.el8 4.noarch.rpm keyutils-libs-1.5.10-9.el8.x86 64.rpm nettle-3.4.1-7.el8.x86 64.rpm centos-gpg-keys-8-3.el8.noarch.rpm kmod-25-18.el8.x86 64.rpm openldap-2.4.46-18.el8.x86 64.rpm centos-linux-release-8.5-1.2111.el8.noarch.rpm kmod-libs-25-18.el8.x86 64.rpm openssl-1.1.1k-5.el8 5.x86 64.rpm centos-linux-repos-8-3.el8.noarch.rpm kpartx-0.8.4-17.el8.x86 64.rpm openssl-libs-1.1.1k-5.el8 5.x86 64.rpm openssl-pkcs11-0.4.10-2.el8.x86_64.rpm os-prober-1.74-9.el8.x86_64.rpm chkconfig-1.19.1-1.el8.x86 64.rpm krb5-libs-1.18.2-14.el8.x86 64.rpm coreutils-8.30-12.el8.x86 64.rpm libacl-2.2.53-1.el8.x86 64.rpm coreutils-common-8.30-12.el8.x86_64.rpm libarchive-3.3.3-1.el8.x86 64.rpm p11-kit-0.23.22-1.el8.x86 64.rpm cpio-2.12-10.el8.x86_64.rpm libattr-2.4.48-3.el8.x86 64.rpm p11-kit-trust-0.23.22-1.el8.x86 64.rpm libblkid-2.32.1-28.el8.x86_64.rpm cracklib-2.9.6-15.el8.x86 64.rpm pam-1.3.1-15.el8.x86 64.rpm cracklib-dicts-2.9.6-15.el8.x86 64.rpm libcap-2.26-5.el8.x86 64.rpm pcre2-10.32-2.el8.x86 64.rpm crypto-policies-20210617-1.gitc776d3e.el8.noarch.rpm libcap-ng-0.7.11-1.el8.x86_64.rpm crypto-policies-scripts-20210617-1.gitc776d3e.el8.noarch.rpm libcom_err-1.45.6-2.el8.x86_64.rpm pcre-8.42-6.el8.x86 64.rpm pigz-2.4-4.el8.x86 64.rpm platform-python-3.6.8-41.el8.x86 64.rpm cryptsetup-libs-2.3.3-4.el8.x86 64.rpm libcroco-0.6.12-4.el8 2.1.x86 64.rpm curl-7.61.1-22.el8.x86 64.rpm libcurl-7.61.1-22.el8.x86 64.rpm cyrus-sasl-lib-2.1.27-5.el8.x86 64.rpm libdb-5.3.28-42.el8 4.x86 64.rpm ous-1.12.8-14.el8.x86 64.rpm libdb-utils-5.3.28-42.el8_4.x86_64.rpm lbus-common-1.12.8-14.el8.noarch.rpm lbus-daemon-1.12.8-14.el8.x86_64.rpm libfdisk-2.32.1-28.el8.x86_64.rpm procps-ng-3.3.15-6.el8.x86_64.rpm publicsuffix-list-dafsa-20180723-1.el8.noarch.rpm libffi-3.1-22.el8.x86 64.rpm bus-libs-1.12.8-14.el8.x86 64.rpm libgcc-8.5.0-4.el8 5.x86 64.rpm python39-3.9.13-1.module el8.7.0+1178+0ba51308.x86 64.rpm python39-libs-3.9.13-1.module_et8.7.0+1170+0ba31300.x00_04.rpm python39-libs-3.9.13-1.module_et8.7.0+1178+0ba51308.x86_64.rpm python39-pip-20.2.4-7.module_et8.6.0+961+ca697fb5.noarch.rpm python39-setuptools-50.3.2-4.module_et8.6.0+930+10acc06f.noarch.rpm bus-tools-1.12.8-14.el8.x86 64.rpm libgcrypt-1.8.5-6.el8.x86 64.rpm libgomp-8.5.0-4.el8_5.x86_64.rpm libgpg-error-1.31-1.el8.x86_64.rpm libidn2-2.2.0-1.el8.x86_64.rpm levice-mapper-1.02.177-10.el8.x86_64.rpm levice-mapper-libs-1.02.177-10.el8.x86_64.rpm diffutils-3.6-6.el8.x86_64.rpm dracut-049-191.git20210920.el8.x86_64.rpm libkcapi-1.2.0-2.el8.x86 64.rpm python39-setuptools-wheel-50.3.2-4.module el8.6.0+930+10acc06f.noarch.rpm elfutils-debuginfod-client-0.185-1.el8.x86_64.rpm elfutils-default-yama-scope-0.185-1.el8.noarch.rpm elfutils-libelf-0.185-1.el8.x86_64.rpm libkcapi-hmaccalc-1.2.0-2.el8.x86 64.rpm python3-libs-3.6.8-41.el8.x86 64.rpm python3-pip-wheel-9.0.3-20.el8.noarch.rpm python3-setuptools-wheel-39.2.0-6.el8.noarch.rpm libmount-2.32.1-28.el8.x86_64.rpm libnghttp2-1.33.0-3.el8 2.1.x86 64.rpm elfutils-libs-0.185-1.el8.x86 64.rpm expat-2.2.5-4.el8.x86_64.rpm file-5.33-20.el8.x86_64.rpm file-libs-5.33-20.el8.x86_64.rpm libpwquality-1.4.4-3.el8.x86_64.rpm libseccomp-2.5.1-1.el8.x86_64.rpm libselinux-2.9-5.el8.x86_64.rpm rpm-libs-4.14.3-19.el8.x86_64.rpm sed-4.5-2.el8.x86_64.rpm filesystem-3.8-6.el8.x86 64.rpm setup-2.12.2-6.el8.noarch.rpm libseanage-2.9-6.el8.x86_64.rpm libsepol-2.9-3.el8.x86_64.rpm libsigsegv-2.11-5.el8.x86_64.rpm libsmartcols-2.32.1-28.el8.x86_64.rpm indutils-4.6.0-20.el8.x86 64.rpm shadow-utils-4.6-14.el8.x86 64.rpm gawk-4.2.1-2.el8.x86_64.rpm gdbm-1.18-1.el8.x86_64.rpm shared-mime-info-1.9-3.el8.x86_64.rpm sqlite-libs-3.26.0-15.el8.x86_64.rpm lbm-libs-1.18-1.el8.x86_64.rpm systemd-239-51.el8 5.2.x86 64.rpm libssh-0.9.4-3.el8.x86_64.rpm systemd-libs-239-51.el8_5.2.x86_64.rpm ettext-0.19.8.1-17.el8.x86 64.rpm systemd-pam-239-51.el8_5.2.x86_64.rpm systemd-udev-239-51.el8_5.2.x86_64.rpm libssh-config-0.9.4-3.el8.noarch.rpm libstdc++-8.5.0-4.el8_5.x86_64.rpm gettext-libs-0.19.8.1-17.el8.x86_64.rpm glib2-2.56.4-156.el8.x86 64.rpm glibc-2.28-164.el8.x86_64.rpm libtasn1-4.13-3.el8.x86_64.rpm trousers-0.3.15-1.el8.x86_64.rpm glibc-all-langpacks-2.28-164.el8.x86_64.rpm glibc-common-2.28-164.el8.x86_64.rpm libtirpc-1.1.4-5.el8.x86 64.rpm trousers-lib-0.3.15-1.el8.x86 64.rpm libunistring-0.9.9-3.el8.x86 64.rpm tzdata-2021e-1.el8.noarch.rpm pmp-6.1.2-10.el8.x86 64.rpm libutempter-1.1.6-14.el8.x86 64.rpm util-linux-2.32.1-28.el8.x86 64.rpm libuuid-2.32.1-28.el8.x86 64.rpm nutls-3.6.16-4.el8.x86 64.rpm which-2.21-16.el8.x86 64.rpm xkeyboard-config-2.28-1.el8.noarch.rpm grep-3.1-6.el8.x86 64.rpm libverto-0.3.0-5.el8.x86 64.rpm xz-5.2.4-3.el8.x86 64.rpm rub2-common-2.02-106.el8.noarch.rpm libxcrypt-4.1.1-6.el8.x86 64.rpm

xz-libs-5.2.4-3.el8.x86 64.rpm

密密麻麻,只会多不会少了,这里我们将刚刚 yum 命令提示的 python39 需要的包提取出来放在一个目录当中:

libxkbcommon-0.9.1-1.el8.x86 64.rpm

rub2-tools-2.02-106.el8.x86 64.rpm

```
[root@localhost ~]# yum install python39
Repository extras is listed more than once in the configuration
Last metadata expiration check: 0:00:32 ago on Sat 09 Jul 2022 04:24:45
Dependencies resolved.
 Package
                                                                    Arch
Installing:
python39
                                                                    x86
Installing dependencies:
python39-libs
                                                                    x86
python39-pip-wheel
                                                                    noar
python39-setuptools-wheel
                                                                    noai
Installing weak dependencies:
python39-pip
                                                                    noar
python39-setuptools
                                                                    noai
Enabling module streams:
python39
Transaction Summary
Install 6 Packages
Total download size: 13 M
Installed size: 45 M
Is this ok [y/N]:
```

名称	大小	类型	
python39-3.9.13-1.module_el8.7.0+1178+0ba51308.x86_64.rpm	33KB	RPM 文件	
python39-libs-3.9.13-1.module_el8.7.0+1178+0ba51308.x86_64.rpm	8.20MB	RPM 文件	
python39-pip-20.2.4-7.module_el8.6.0+961+ca697fb5.noarch.rpm	1.91MB	RPM 文件	
python 39-pip-wheel - 20.2.4-7. module_el8.6.0+961+ca697fb5. no arch.rpm	1.09MB	RPM 文件	
python39-setuptools-50.3.2-4.module_el8.6.0+930+10acc06f.noarch.rpm	871KB	RPM 文件	
python 39-setup to ols-wheel-50.3.2-4. module_el8.6.0+930+10 acc 06f. no arch.rpm	497KB	RPM 文件	

使用如下命令安装这些 rpm 软件包:

```
[root@localhost 2]# ll
total 12884
rw-r--r-. 1 root root 33562 Jul 9 16:50 python39-3.9.13-1.module el8.7.0+1178+0ba51308.x86 64.rpm-
rw-r--r-. 1 root root 8593690 Jul 9 16:50 python39-libs-3.9.13-1.module el8.7.0+1178+0ba51308.x86 64.rpm
-rw-r--r--. 1 root root 2002214 Jul 9 16:50 python39-pip-20.2.4-7.module el8.6.0+961+ca697fb5.noarch.rpm
 rw-r--r-. 1 root root 1147366 Jul 9 16:50 python39-pip-wheel-20.2.4-7.module el8.6.0+961+ca697fb5.noarch.rpm-
rw-r--r-. 1 root root 892078 Jul 9 16:50 python39-setuptools-50.3.2-4.module el8.6.0+930+10acc06f.noarch.rpm-
-rw-r--r--. 1 root root 508670 Jul 9 16:50 python39-setuptools-wheel-50.3.2-4.module el8.6.0+930+10acc06f.noarch.rpm
[root@localhost 2]# rpm -ivh *.rpm --force --nodeps
Verifying...
                                    Preparing...
                                    #################################### [100%]
Updating / installing...
   1:python39-setuptools-wheel-50.3.2-###################### [ 17%]
  2:python39-pip-wheel-20.2.4-7.modul################################ [ 33%]
  3:python39-libs-3.9.13-1.module el8##################### [ 50%]
  4:python39-3.9.13-1.module el8.7.0+######################### [ 67%]
  5:python39-setuptools-50.3.2-4.modu######################### [ 83%]
  6:python39-pip-20.2.4-7.module el8.##################### [100%]
[root@localhost 2]# python3 -V
Python 3.9.13
[root@localhost 2]# python3
Python 3.9.13 (main, Jun 24 2022, 15:32:51)
[GCC 8.5.0 20210514 (Red Hat 8.5.0-13)] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> print('hello world')
hello world
>>>
```

可见,我们通过离线安装包已经成功安装了Python 3.9。