

# PBA Downloader

svn URL: `svn+ssh://pba@svn.clazzes.org/svn/pba/trunk/pba-download`

Package name: `python3-pba-download`

## Description

The PBA downloader fetches one or more packages from a list of yum or deb repositories without using any data persisted on the host system.

It may be fed with a config file describing a large number of packages to be downloaded to one or more subdirectories of the current directory.

## DEB repositories

### All-in-one cmdline

This variant allows to download multiple packages using one or more repositories specified by the `-r <depline>` option. The debian repository line must not contain components, which are taken from the release file of the repository if not explicitly specified.

An architecture must be specified using the option `-a <arch>`.

## Download debian packages by specifying the repository on the cmdline.

```
$ pba-download -r 'deb http://ftp.at.debian.org/debian stretch' -a amd64 libc6 libc6-dev
2018-07-04 22:32:37,905 INFO Loading URL [http://ftp.at.debian.org/debian/dists/stretch/InRelease]...
2018-07-04 22:32:37,976 WARNING File [dists/stretch/InRelease] not found, using Release and Release.gpg
2018-07-04 22:32:37,977 INFO Loading URL [http://ftp.at.debian.org/debian/dists/stretch/Release]...
2018-07-04 22:32:38,174 INFO Loading URL [http://ftp.at.debian.org/debian/dists/stretch/Release.gpg]...
2018-07-04 22:32:38,257 INFO Checking GPG signature on [dists/stretch/Release]
2018-07-04 22:32:38,296 INFO gpgv: Signatur vom Sam 10 Mär 2018 11:22:39 CET
2018-07-04 22:32:38,296 INFO gpgv:           mittels RSA-Schlüssel A1BD8E9D78F7FE5C3E65D8AF8B48AD6246925553
2018-07-04 22:32:38,297 INFO gpgv: Korrekte Signatur von "Debian Archive Automatic Signing Key (7.0/wheezy)
<ftpmaster@debian.org>"
2018-07-04 22:32:38,297 INFO gpgv: Signatur vom Sam 10 Mär 2018 11:22:40 CET
2018-07-04 22:32:38,297 INFO gpgv:           mittels RSA-Schlüssel 126C0D24BD8A2942CC7DF8AC7638D0442B90D010
2018-07-04 22:32:38,298 INFO gpgv: Korrekte Signatur von "Debian Archive Automatic Signing Key (8/jessie)
<ftpmaster@debian.org>"
2018-07-04 22:32:38,304 INFO gpgv: Signatur vom Sam 10 Mär 2018 11:25:44 CET
2018-07-04 22:32:38,304 INFO gpgv:           mittels RSA-Schlüssel 067E3C456BAE240ACEE88F6FEF0F382A1A7B6500
2018-07-04 22:32:38,304 INFO gpgv: Korrekte Signatur von "Debian Stable Release Key (9/stretch) <debian-
release@lists.debian.org>"
2018-07-04 22:32:38,304 INFO GPG signature on [dists/stretch/Release] is OK.
2018-07-04 22:32:38,306 WARNING Ignoring unknown Release tag [Changelogs: http://metadata.ftp-master.debian.org
/changelogs/@CHANGE_PATH@_changelog] of resource [http://ftp.at.debian.org/debian/dists/stretch/Release].
2018-07-04 22:32:38,307 WARNING Ignoring unknown Release tag [Acquire-By-Hash: yes] of resource [http://ftp.at.
debian.org/debian/dists/stretch/Release].
2018-07-04 22:32:38,377 INFO Taking components ['main', 'contrib', 'non-free'] from [http://ftp.at.debian.org
/debian/dists/stretch/Release]
2018-07-04 22:32:38,378 INFO Loading URL [http://ftp.at.debian.org/debian/dists/stretch/main/binary-amd64
/Packages.gz]...
2018-07-04 22:32:58,486 INFO Successfully loaded [50838] package headers from [http://ftp.at.debian.org/debian
/dists/stretch/main/binary-amd64/Packages.gz].
2018-07-04 22:32:58,487 INFO Loading URL [http://ftp.at.debian.org/debian/dists/stretch/contrib/binary-amd64
/Packages.gz]...
2018-07-04 22:32:58,674 INFO Successfully loaded [303] package headers from [http://ftp.at.debian.org/debian
/dists/stretch/contrib/binary-amd64/Packages.gz].
2018-07-04 22:32:58,675 INFO Loading URL [http://ftp.at.debian.org/debian/dists/stretch/non-free/binary-amd64
/Packages.gz]...
2018-07-04 22:32:58,908 INFO Successfully loaded [517] package headers from [http://ftp.at.debian.org/debian
/dists/stretch/non-free/binary-amd64/Packages.gz].
2018-07-04 22:32:58,908 INFO Found package [libc6] in repository [stretch/main]
2018-07-04 22:32:58,908 INFO Loading URL [http://ftp.at.debian.org/debian/pool/main/g/glibc/libc6_2.24-
11+deb9u3_amd64.deb]...
2018-07-04 22:33:01,733 INFO Saved file [libc6_2.24-11+deb9u3_amd64.deb] with checksum
[e57b3e24ea79fcdb46549d4ed2b95bb9657f21bba60ed5d9136d5b7112500084]
2018-07-04 22:33:01,734 INFO Setting modification time of file [libc6_2.24-11+deb9u3_amd64.deb] to [2018-02-15
04:41:07]
2018-07-04 22:33:01,734 INFO Found package [libc6-dev] in repository [stretch/main]
2018-07-04 22:33:01,735 INFO Loading URL [http://ftp.at.debian.org/debian/pool/main/g/glibc/libc6-dev_2.24-
11+deb9u3_amd64.deb]...
2018-07-04 22:33:04,207 INFO Saved file [libc6-dev_2.24-11+deb9u3_amd64.deb] with checksum
[8bdebd7bc1fc4138e0181821alfelfb576cbae241f03a31ab3c6cfc3a9875dc6]
2018-07-04 22:33:04,207 INFO Setting modification time of file [libc6-dev_2.24-11+deb9u3_amd64.deb] to [2018-02-
15 04:41:07]
```

## Download using a config file

You may create a config file, which contains multiple package names and multiple repository lines.

### deb-packages.conf config file for large-scale debian download

```
[deb]
osgi-runner-2=deb https://deb.clazzes.org/any any-osgi-runner-2
osgi-3=deb https://deb.itcg.at/any any-osgi-3
myapp-2=deb http://deb.mycompany.com/any any-myapp-2
[options]
arch=amd64
[osgi-main-packages]
osgi-runner-server
osgi-runner-client
osgi-runner-osgi-bundle-activator
osgi-runner-oracle12
osgi-runner-log4j2
osgi-runner-systemd
osgi-bundles-common
osgi-bundles-jdbc
osgi-bundles-remoting
osgi-bundles-pdfbox
osgi-bundles-dojo
osgi-bundles-dmutils
osgi-bundles-login-adapter
osgi-bundles-login-services
osgi-bundles-fancymail-server
[myapp-main-packages]
myapp-bundles
```

The packages are downloaded to two subdirectories, `osgi-main` and `myapp-main`, respectively.

### Start a config file driven download

```
pba-download -c deb-packages.conf
```

## YUM repositories

### All-in-one cmdline

This variant allows to download multiple packages using one or more repositories specified by the `-y <repourl>` option.

An architecture and a distro must be specified using the option `-a <arch>` and `-d <distro>`.

## Download RPM package from a YUM repository on the cmdline.

```
$ pba-download -y http://rpm.clazzes.org/repos/fancyclibs-1/fancyclibs-1.repo -a x86_64 -d 7 fancylog-1
fancylog-1-devel
2018-07-04 22:46:41,236 INFO Loading yum repository from [http://rpm.clazzes.org/repos/fancyclibs-1/fancyclibs-1.repo]
2018-07-04 22:46:41,321 INFO Will try to fetch GPG key [file:///etc/pki/rpm-gpg/RPM-GPG-KEY-pba-builder-iteg-at] from URL [http://rpm.clazzes.org/gpg/RPM-GPG-KEY-pba-builder-iteg-at]
2018-07-04 22:46:41,322 INFO Successfully loaded yum repository with name [fancyclibs-1] and baseurl [http://rpm.clazzes.org/repos/fancyclibs-1/centos$releasever/$basearch/].
2018-07-04 22:46:41,323 INFO Loading URL [http://rpm.clazzes.org/repos/fancyclibs-1/centos7/x86_64/repodata/repomd.xml]...
2018-07-04 22:46:41,421 INFO Loaded repomd.xml with revision [1492005064] and [6] entries.
2018-07-04 22:46:41,422 INFO Open DB for yum repo [fancyclibs-1]
2018-07-04 22:46:41,422 INFO Loading URL [http://rpm.clazzes.org/repos/fancyclibs-1/centos7/x86_64/repodata/ca6a8999e22d71b589fd72d685a11135eab72318302beb9308d8eb02945f096f-primary.sqlite.bz2]...
2018-07-04 22:46:41,509 INFO Creating sqlite DB under [/tmp/tmp016fgwpbdownload/primary_db]
2018-07-04 22:46:41,510 INFO Found package [fancylog-1] in repository [fancyclibs-1]
2018-07-04 22:46:41,511 INFO Loading URL [http://rpm.clazzes.org/repos/fancyclibs-1/centos7/x86_64/fancylog-1-1.0.3-1.x86_64.rpm]...
2018-07-04 22:46:41,610 INFO Saved file [fancylog-1-1.0.3-1.x86_64.rpm] with checksum [17531db46c7cf186451cc4647e5dbb391813c31e0ddd9caa8d2f53b4f63975f9]
2018-07-04 22:46:41,611 INFO Setting modification time of file [fancylog-1-1.0.3-1.x86_64.rpm] to [2017-04-12 13:51:01]
2018-07-04 22:46:41,612 INFO Found package [fancylog-1-devel] in repository [fancyclibs-1]
2018-07-04 22:46:41,613 INFO Loading URL [http://rpm.clazzes.org/repos/fancyclibs-1/centos7/x86_64/fancylog-1-devel-1.0.3-1.x86_64.rpm]...
2018-07-04 22:46:41,700 INFO Saved file [fancylog-1-devel-1.0.3-1.x86_64.rpm] with checksum [12bd5a9f0ab55ee8e968bcc01c6149b982f4cac56f2473d89f977d0b01e0f91d]
2018-07-04 22:46:41,701 INFO Setting modification time of file [fancylog-1-devel-1.0.3-1.x86_64.rpm] to [2017-04-12 13:51:01]
```

## Download using a config file

You may create a config file, which contains multiple package names and multiple YUM repository URL.

### yum-packages.conf config file for large-scale RPM download

```
[yum]
osgi-runner-2=https://rpm.clazzes.org/repos/osgi-runner-2/osgi-runner-2.repo
osgi-3=https://rpm.iteg.at/repos/osgi-3/osgi-3.repo
rsecm-2=http://rpm.pba.efkon.com/repos/rsecm-2/rsecm-2.repo
[options]
distro=7
arch=x86_64
[osgi-main-packages]
osgi-runner-server
osgi-runner-client
osgi-runner-osgi-bundle-activator
osgi-runner-oracle12
osgi-runner-log4j2
osgi-runner-systemd
osgi-bundles-common
osgi-bundles-jdbc
osgi-bundles-remoting
osgi-bundles-pdfbox
osgi-bundles-doj
osgi-bundles-dmutils
osgi-bundles-login-adapter
osgi-bundles-login-services
osgi-bundles-fancymail-server
[myapp-main-packages]
myapp-bundles
```

The packages are downloaded to two subdirectories, `osgi-main` and `myapp-main`, respectively.

**Start a config file driven download**

```
pba-download -c yum-packages.conf
```