



Linux Ubuntu 22.4.5 Manual Pages on command 'debootstrap.8'

\$ man debootstrap.8

DEBOOTSTRAP(8) Debian GNU/Linux manual DEBOOTSTRAP(8)

NAME

debootstrap - Bootstrap a basic Debian system

SYNOPSIS

debootstrap [OPTION...] SUITE TARGET [MIRROR [SCRIPT]]

debootstrap [OPTION...] --second-stage

DESCRIPTION

debootstrap bootstraps a basic Debian system of SUITE into TARGET from MIRROR by running SCRIPT. MIRROR can be an http:// or https:// URL, a file:/// URL, or an ssh:/// URL.

The SUITE may be a release code name (eg, sid, stretch, jessie) or a symbolic name (eg, unstable, testing, stable, oldstable)

Notice that file:/ URLs are translated to file:/// (correct scheme as described in RFC1738 for local filenames), and file:// will not work. ssh://USER@HOST/PATH URLs are retrieved using scp; use of ssh-agent or similar is strongly recommended.

Debootstrap can be used to install Debian in a system without using an installation disk but can also be used to run a different Debian flavor in a chroot environment.

This way you can create a full (minimal) Debian installation which can be used for testing purposes (see the EXAMPLES section). If you are looking for a chroot system to build packages please take a look at pbuilder.

OPTIONS

--arch=ARCH

Set the target architecture (use if dpkg isn't installed). See also `--for?`

`eign`.

`--include=alpha,beta`

Comma separated list of packages which will be added to download and extract lists.

`--exclude=alpha,beta`

Comma separated list of packages which will be removed from download and extract lists. **WARNING:** you can and probably will exclude essential packages, be careful using this option.

`--extra-suites=alpha,beta`

Also use packages from the listed suites of the archive.

`--components=alpha,beta`

Use packages from the listed components of the archive.

`--no-resolve-deps`

By default, `debootstrap` will attempt to automatically resolve any missing dependencies, warning if any are found. Note that this is not a complete dependency resolve in the sense of `dpkg` or `apt`, and that it is far better to specify the entire base system than rely on this option. With this option set, this behaviour is disabled.

`--log-extra-deps`

If you want to record additional dependencies when resolving package dependencies, set this option to track them through `debootstrap.log`.

`--variant=minbase|buildd|fakechroot`

Name of the bootstrap script variant to use. Currently, the variants supported are `minbase`, which only includes required packages and `apt`; `buildd`, which installs the build-essential packages and `fakechroot`, which installs the packages without root privileges. The default, with no `--variant=X` argument, is to create a base Debian installation with all packages of priority required and important, including `apt`.

`--merged-usr`

Create `/bin,sbin,lib/` symlinks pointing to their counterparts in `/usr/`.
(Default for most variants.)

`--no-merged-usr`

Do not create `/{bin,sbin,lib}/` symlinks pointing to their counterparts in `/usr/`. (Default for the `buildd` variant.)

`--keyring=KEYRING`

Override the default keyring for the distribution being bootstrapped, and use `KEYRING` to check signatures of retrieved Release files.

`--no-check-gpg`

Disables checking gpg signatures of retrieved Release files.

`--force-check-gpg`

Forces checking Release file signatures, disabling automatic fallback to `HTTPS` in case of a missing keyring. Incompatible with the previous option.

`--verbose`

Produce more info about downloading.

`--print-debs`

Print the packages to be installed, and exit. Note that an empty or non-existing `TARGET` directory must be specified so that `debootstrap` can download Packages files to determine which packages should be installed, and to resolve dependencies. The `TARGET` directory will be deleted unless `--keep-debootstrap-dir` is specified.

`--download-only`

Download packages, but don't perform installation.

`--foreign`

Do the initial unpack phase of bootstrapping only, for example if the target architecture does not match the host architecture. A copy of `debootstrap` sufficient for completing the bootstrap process will be installed as `/debootstrap/debootstrap` in the target filesystem. You can run it with the `--second-stage` option to complete the bootstrapping process.

`--second-stage`

Complete the bootstrapping process. Other arguments are generally not needed.

`--second-stage-target=DIR`

Run second stage in a subdirectory instead of root. (can be used to create a foreign chroot) (requires `--second-stage`)

`--keep-debootstrap-dir`

Don't delete the /debootstrap directory in the target after completing the installation.

`--cache-dir=DIR`

Cache .deb files under directory. It should be an absolute path.

`--unpack-tarball=FILE`

Acquire .debs from gzipped tarball FILE (specified with absolute path) instead of downloading via HTTP(S).

`--make-tarball=FILE`

Instead of bootstrapping, make a gzipped tarball (written to FILE) of the downloaded packages. The resulting tarball may be passed to a later `--unpack-tarball`. Note that an empty or non-existing TARGET directory must be specified so that debootstrap can download packages to prepare the tarball. The TARGET directory will be deleted unless `--keep-debootstrap-dir` is specified.

`--debian-installer`

Used for internal purposes by the debian-installer

`--extractor=TYPE`

Override automatic .deb extractor selection to TYPE. Supported extractors are: dpkg-deb and ar.

`--no-check-certificate`

Do not check certificate against certificate authorities

`--certificate=FILE`

Use the client certificate stored in file (PEM)

`--private-key=FILE`

Read the private key from file

EXAMPLES

To setup a stretch system:

```
debootstrap stretch ./stretch-chroot http://deb.debian.org/debian
```

```
debootstrap stretch ./stretch-chroot file:///LOCAL_MIRROR/debian
```

Full process to create a complete Debian installation of sid (unstable) in a ch?

root:

```
main # debootstrap sid sid-root http://deb.debian.org/debian/
```

```
[ ... watch it download the whole system ]
```

```
main # echo "proc sid-root/proc proc defaults 0 0" >> /etc/fstab
main # mount proc sid-root/proc -t proc
main # echo "sysfs sid-root/sys sysfs defaults 0 0" >> /etc/fstab
main # mount sysfs sid-root/sys -t sysfs
main # cp /etc/hosts sid-root/etc/hosts
main # chroot sid-root /bin/bash
```

AUTHOR

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Debian Project

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DEBOOTSTRAP(8)