

**NAME**

**mk-sbuild** – creates chroots via schroot and sbuild

**SYNOPSIS**

**mk-sbuild** [*options...*] <*release*>

**DESCRIPTION**

**mk-sbuild** creates chroots via schroot and sbuild.

**OPTIONS**

Listed below are the command line options for **mk-sbuild**:

**--arch=ARCH**

What architecture to select (defaults to the native architecture).

**--target=ARCH**

Set up the chroot as a cross-building environment targeting the specified architecture.

**--name=NAME**

Base name for the schroot (arch is appended).

**--personality=PERSONALITY**

What personality to use (defaults to match **--arch**).

**--debug**

Turn on script debugging.

**--skip-updates**

Do not include the **--updates** pocket in the installed **sources.list**.

**--skip-proposed**

Do not include the **--proposed** pocket in the installed **sources.list**.

**--source-template=FILE**

Use *FILE* as the **sources.list** template (defaults to *\$HOME/.mk-sbuild.sources*).

**--debootstrap-mirror=URL**

Use *URL* as the debootstrap source (defaults to **http://ports.ubuntu.com** where appropriate, official Ubuntu repositories for the supported architectures).

**--debootstrap-include=alpha,beta**

Pass along a comma separated list of packages to debootstrap's **--include** argument. See **debootstrap** (8) for more details.

**--debootstrap-exclude=alpha,beta**

Pass along a comma separated list of packages to debootstrap's **--exclude** argument. **WARNING:** be careful using this option as you can end up excluding essential package. See **debootstrap** (8) for more details.

**--debootstrap-keyring=keyring**

Pass along the path to a gpg keyring file to debootstrap's **--keyring** argument. See **debootstrap** (8) for more details.

**--debootstrap-no-check-gpg**

Disable checking gpg signatures of downloaded Release files by using debootstrap's **--no-check-gpg** option. See **debootstrap** (8) for more details.

**--distro=DISTRO**

Enable distro-specific logic. When not provided, the distribution is determined from *release*. Currently known distros: "**debian**" and "**ubuntu**".

**--vg=VOLUME\_GROUP**

Specify a volume group, and subsequently use a default **SCHROOT\_TYPE** of "lvm-snapshot" rather than "directory" (via overlayfs or aufs) mounts.

**--type=SHROOT\_TYPE**

Specify a **SCHROOT\_TYPE**. Supported values are "directory" (default if **--vg** not specified), "lvm-snapshot" (default if **--vg** specified), "btrfs-snapshot", and "file".

## ENVIRONMENT VARIABLES

**LV\_SIZE**

Size of source LVs (defaults to 5G).

**SNAPSHOT\_SIZE**

Size of snapshot LVs (defaults to 4G).

**SCHROOT\_CONF\_SUFFIX**

Lines to append to schroot entries.

**SCHROOT\_PROFILE**

Profile to use with schroot. (defaults to sbuild)

**SKIP\_UPDATES**

Do not include the **-updates** pocket (same as **--skip-updates**)

**SKIP\_PROPOSED**

Do not include the **-proposed** pocket (same as **--skip-proposed**)

**DEBOOTSTRAP\_MIRROR**

Mirror location (same as **--debootstrap-mirror**)

**DEBOOTSTRAP\_INCLUDE**

Comma separated list of packages to include when bootstrapping (same as **--debootstrap-include**)

**DEBOOTSTRAP\_EXCLUDE**

Comma separated list of packages to exclude when bootstrapping (same as **--debootstrap-exclude**; see warning above)

**DEBOOTSTRAP\_KEYRING**

Keyring file to use for checking gpg signatures of retrieved release files (same as **--debootstrap-keyring**)

**DEBOOTSTRAP\_NO\_CHECK\_GPG**

Disable gpg verification of retrieved release files (same as **--debootstrap-no-check-gpg**)

**SOURCE\_CHROOTS\_DIR**

Use **SOURCE\_CHROOTS\_DIR** as home of schroot source directories. (default **/var/lib/schroot/chroots**)

**SOURCE\_CHROOTS\_TGZ**

Use **SOURCE\_CHROOTS\_TGZ** as home of schroot source tarballs. (default **/var/lib/schroot/tarballs**)

**CHROOT\_SNAPSHOT\_DIR**

Use **CHROOT\_SNAPSHOT\_DIR** as home of mounted btrfs snapshots. (default **/var/lib/schroot/snapshots**)

## FILES

**\$HOME/.mk-sbuild.rc**

Sourced for environment variables (defined above).

**`$HOME/.mk-build.sources[,$DISTRO]`**

Can contain a customized **`sources.list`**. It will be read when creating the schroot. If a file with **`".ubuntu"`** or **`".debian"`** is found (as appropriate) it will use used instead. See **`sources.list`** (5) for more details on the format.

**`$HOME/.mk-build.schroot.conf[,$SCHROOT_TYPE]`**

Can contain a customized configuration section to be inserted into **`/etc/schroot/schroot.conf`**. If a file with **`".lvm-snapshot"`**, **`".directory"`**, **`".file"`**, or **`".btrfs-snapshot"`** is found (as appropriate) that file will use used instead. See **`schroot.conf`** (5) for more details on the format.

## USING THE CHROOTS

To CHANGE the golden image: **`sudo schroot -c ${SCHROOT_NAME}-source -u root`**

To ENTER an image snapshot: **`schroot -c $SCHROOT_NAME`**

To BUILD within a snapshot: **`sbuild -A -d $SCHROOT_NAME $PACKAGE*.dsc`**

for example, to update the packages in a **`sid-amd64`** golden image:

```
schroot -c sid-amd64-source -u root -- sh -c "apt-get -qq update && apt-get -qq upgrade
&& apt-get clean" </dev/null
```

## SEE ALSO

**`sbuild-setup`**(7), **`sources.list`**(5), **`schroot.conf`**(5), <https://help.ubuntu.com/community/SbuildLVMHowto>

## AUTHOR

**`mk-sbuild`** was written by Kees Cook <kees@ubuntu.com>. This man page was written by Ryan Kavanagh <ryanakca@kubuntu.org>. Both are released under the GNU General Public License, version 3 or later.