Setting up a Slackware chroot

There are multiple reasons why you might want to set up a Slackware chroot:

- building 32-bit packages on a 64-bit multilib system
- building -stable packages on a -current system
- building (and testing) packages for SBo on a clean system

For this guide, we'll create a chroot at /chroot folder from slackware-14.1-install-dvd.iso.

Obtaining a Slackware installation of your desired architecture

Start with a Slackware installation DVD. Download it from from http://www.slackware.com/getslack/via torrent.

Installing the packages

Automatically

You can create your chroot and install Slackware into it using the following elegant script: http://tty1.uk/scripts/slackware/mkchroot

Manually

First, create a folder which will contain the chroot:

```
mkdir /chroot_folder
```

Mount the installation ISO:

```
mount -o loop slackware-14.1-install-dvd.iso /mnt/cdrom
cd /mnt/cdrom
```

After the ISO has been mounted, the packages (found under the *slackware* or *slackware64* folder) can be installed to the chroot folder with:

```
installpkg --root /chroot-folder */*.t?z
```

Then unmount the ISO:

```
umount /mnt/cdrom
```

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Setting up required files

fstab

The following minimal snippet can be used for /chroot folder/etc/fstab

<pre># <file system=""> tmpfs devpts 0</file></pre>	<mount point=""> /dev/shm /dev/pts</mount>	<type> tmpfs devpts</type>	<pre><options> defaults noexec,nosuid,</options></pre>	<dump> 0 gid=tty,</dump>	<pre><pass> 0 mode=0620</pass></pre>	Θ
sysfs	/sys	sysfs	defaults	0	0	
proc	/proc	proc	defaults	0	0	

Entering the Chroot

Automatic mount

To have the chroot mounted permanently, add the following to your <u>host system's</u> /etc/fstab:

/dev	chroot_folder/dev	none	bind,auto	0	0
/proc	chroot_folder/proc	none	bind,auto	0	0
/sys	chroot_folder/sys	none	bind,auto	0	0
/etc/resolv.conf	<pre>chroot_folder/etc/resolv.conf</pre>	none	bind,auto	0	0

And reboot. Then run the following command to mount the chroot folder:

```
mount /chroot_folder
```

Manual mount

Refer to: (volume_mounting).

Entering the Chroot

Now that the chroot is set up, one can chroot into it:

```
chroot /chroot_folder /bin/bash
```

Note

Wrote a small script to automate the chroot steps.

https://raw.githubusercontent.com/aadityabagga/scripts/master/chroot.sh

Updating packages

After that, you can run slackpkg and update the packages: (configure a package manager).

Exiting

When you're done, exited the chroot by pressing *Ctrl+d*.

Usecase: Building 32-bit Packages

Mounting partitions

I use a chroot to build 32-bit packages on a 64-bit system. I needed to mount the partition which contained the SlackBuilds for which I wanted to make a package, As my Slackware host mount point is (in this example) at /slackware host mount point, I used the command:

```
mount -B /slackware host mount point /chroot folder
```

(http://www.thegeekstuff.com/2013/01/mount-umount-examples/)

Then I built the package by executing the Slackbuild as follows:

```
ARCH=i686 ./my_package.SlackBuild
```

An alternative way to build other ARCH packages

Instead of using `ARCH=i686' before running a slackbuild, we can use a program called `setarch', which, among other things, can set the ARCH and the kernel version in the shell. It has some handy symlinks, such as linux32 or i586, which saves some typing. The `linux32' command will set the reported kernel's ARCH as `i686'.

SYNOPSIS

```
setarch arch [options] [program [argument...]]
```

When we run `linux32' it starts a new shell, so we can also use it to chroot:

```
chroot /path/to/chroot linux32 /bin/zsh
```

or it could be run after chrooting into our new root. Settings will revert to normal when we exit the new shell. One useful option is to change the kernel's reported version:

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chroot /path/to/chroot linux32 --uname-2.6 /bin/zsh

That `-uname-2.6' isn't a typo, there has to be a dash between the flag and the version. The setarch(8) man page shows all the options.

- Dave

See also

- https://wiki.archlinux.org/index.php/Chroot
- http://www.linuxquestions.org/questions/slackware-installation-40/install-slackware-to-a-folder-u sing-chroot-825598/#post4093831

Sources

* Originally written by Aaditya

howtos

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