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Subject: Scripts to build

Posted by [aryr100](#) on Mon, 04 Mar 2019 20:11:58 GMT

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Looking to build the following

kernel-source.txz

kernel-image.txz

kernel-headers.txz

using the scripts from

<https://freenix.net/fxp/freeslack64-14.2/source/fxp/build/linux-libre/linux-libre-source.SlackBuild>

having trouble to build

Could anyone give me a step by step guides to building these packages, so I could find my mistakes?

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Subject: Re: Scripts to build

Posted by [samtux](#) on Tue, 05 Mar 2019 23:25:28 GMT

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Here are the steps that worked for me to build the kernel package for Freenix 14.2. I'm not sure which is the recommended way how to do it, though.

1. Download the build scripts from the command line prompt as non-root user:

```
lftp -c "open https://freenix.net/fxp/freeslack64-14.2/source/fxp/build/; mirror linux-libre" && cd linux-libre
```

```
curl https://freenix.net/fxp/freeslack64-14.2/source/fxp/build/linux-libre/README > README.TXT
```

2. Get the source of the latest 4.4.x kernel version and install it manually, without building a package:

Set a variable for the download path we use later on:

```
SRC_URL=http://linux-libre.fsfla.org/pub/linux-libre/releases/LATEST-4.4.N
```

Find the latest 4.4.x kernel source and put it to another variable:

```
SRC_ARCH=`curl -s $SRC_URL/ | egrep -o "linux-libre-4\.[0-9]+\-gnu.tar.bz2" | head -n1`
```

Set a version variable:

```
VERSION=`egrep -o "4\.[0-9]+" <<<$SRC_ARCH`
```

Download the source archive:

```
wget $SRC_URL/$SRC_ARCH
```

Unpack the source archive to /usr/src/:

```
su -c "cd /usr/src; tar -xvf "`pwd`"/$SRC_ARCH && ln -sv linux-$VERSION linux"
```

3. Copy the downloaded config files to /usr/src/:

```
su -c "cp -v config-generic-4.4.*.x64 /usr/src/linux/config-generic && cp -v config-huge-4.4.*.x64 /usr/src/linux/config-huge"
```

4. Build the kernel image package:

```
su - -c "cd "`pwd`; bash linux-libre-image.SlackBuild"
```

5. Read the downloaded README.TXT for instructions on further installation steps.

I didn't use the linux-libre-source.SlackBuild script, since it doesn't extract the kernel source archive but only copies it to /usr/src/, and I don't know what's the benefit of installing a Package, which copies an archive that isn't used by any program or script, and only becomes usable after extracting it manually, and also other steps are needed, like copying the config files and the README.TXT, in order to work with the image build script.

I hope this helps.

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Subject: Re: Scripts to build  
Posted by [aryr100](#) on Wed, 06 Mar 2019 17:04:46 GMT  
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Thx for the assist

I prep my system like this:

```
1)su - root
cd /usr/src
wget http://linux-libre.fsfla.org/pub/linux-libre/releases/4.4.176-gnu/linux-libre-4.4.176-gnu.tar.xz
tar -xvpf linux-4.4.176.tar.xz
2)cd linux-4.4.176
zcat /proc/config.gz > .config
make olddefconfig
3)make -j4 bzImage
4)make -j4 modules && make modules_install
5)cp arch/x86/boot/bzImage /boot/vmlinuz-generic-4.4.176
cp System.map /boot/System.map-generic-4.4.176
cp .config /boot/config-generic-4.4.176
####Also cp for rebuilding the iso
cp arch/x86/boot/bzImage /root/kernel/huge.s
etc
6)cd /boot
rm System.map
rm config
ln -s System.map-generic-4.4.176 System.map
ln -s config-generic-4.4.176 config
7)/usr/share/mkinitrd/mkinitrd_command_generator.sh -k 4.4.176
/sbin/lilo then reboot then start the package building process
```

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