

zlib:

CC=arm-linux-gnueabi-gcc ./configure --static --prefix=\$PWD/\_install

make -j6

make install

```
qwerty@qwerty-To-Be-Filled-By-0-E-M:~/Downloads/zlib-1.3.1$ make install
rm -f /home/qwerty/Downloads/zlib-1.3.1/_install/lib/libz.a
cp libz.a /home/qwerty/Downloads/zlib-1.3.1/_install/lib
chmod 644 /home/qwerty/Downloads/zlib-1.3.1/_install/lib/libz.a
rm -f /home/qwerty/Downloads/zlib-1.3.1/_install/share/man/man3/zlib.3
cp zlib.3 /home/qwerty/Downloads/zlib-1.3.1/_install/share/man/man3
chmod 644 /home/qwerty/Downloads/zlib-1.3.1/_install/share/man/man3/zlib.3
rm -f /home/qwerty/Downloads/zlib-1.3.1/_install/lib/pkgconfig/zlib.pc
cp zlib.pc /home/qwerty/Downloads/zlib-1.3.1/_install/lib/pkgconfig
chmod 644 /home/qwerty/Downloads/zlib-1.3.1/_install/lib/pkgconfig/zlib.pc
rm -f /home/qwerty/Downloads/zlib-1.3.1/_install/include/zlib.h /home/qwerty/Downloads/zlib-1.3.1/_install/include/zconf.h
cp zlib.h zconf.h /home/qwerty/Downloads/zlib-1.3.1/_install/include
chmod 644 /home/qwerty/Downloads/zlib-1.3.1/_install/include/zlib.h /home/qwerty/Downloads/zlib-1.3.1/_install/include/zconf.h
```

OpenSSL:

/Configure linux-generic32 no-asm shared --prefix=\$PWD/\_install --cross-compile-prefix=arm-linux-gnueabi-gcc

```
Configure
Configuring OpenSSL version 3.3.2 for target linux-generic32
Using os-specific seed configuration
Created configdata.pm
Running configdata.pm
Created Makefile.in
Created Makefile
Created include/openssl/configuration.h

*****
***
***   OpenSSL has been successfully configured   ***
***
***   If you encounter a problem while building, please open an   ***
***   issue on GitHub <https://github.com/openssl/openssl/issues> ***
***   and include the output from the following command:          ***
***
***       perl configdata.pm --dump                               ***
***
***   (If you are new to OpenSSL, you might want to consult the   ***
***   'Troubleshooting' section in the INSTALL.md file first)     ***
***
*****
```

Устанавливаем в папку install:

make INSTALL\_PREFIX=\$PWD/\_install install

OpenSSH:

./configure --prefix=\$PWD/\_install --with-zlib=\$PWD/../zlib-1.3.1/\_install --with-ssl-dir=\$PWD/../openssl-3.3.2/\_install --disable-strip --host=arm-linux-gnueabi-gcc

Собираем с помощью make и затем make install

После кросс-компиляции имеем файлы в директориях \_install, которые копируем в корневую ФС busybox

Запускаем QEMU:

```
QEMU_AUDIO_DRV=none qemu-system-arm -M vexpress-a9 -kernel zImage -initrd initramfs.cpio.gz -dtb  
vexpress-v2p-ca9.dtb -append "console=ttyAMA0 rdinit=/bin/ash" -nographic
```



```
The key's randomart image is:  
+--[ED25519 256]--+  
|o. ..++ . o .=0o|  
| .. .. . * .Xo+|  
|.          + o= o+|  
|.          o . .o|  
|. . . S . o |  
| + . . o . . . |  
| o . + o o . |  
|          .* . oE|  
|          .oo*o . |  
+-----[SHA256]-----+
```