

## Сборка openssh

Только команды и финальный результат

### 1. Сборка zlib

```
CC=arm-linux-gnueabi-gcc ./configure --prefix=$PWD/_install  
make -j 4  
make install
```

### 2. Сборка openssl

```
./Configure linux-armv4 --prefix=$PWD/_install  
--cross-compile-prefix=arm-linux-gnueabi-gcc  
make -j 4  
make install
```

### 3. Сборка openssh без make install из-за проблемы с strip

```
./configure --prefix=$PWD/_install --host=arm-linux-gnueabi-gcc  
--with-zlib=$PWD/../zlib/_install/ --with-ssl-dir=$PWD/../openssl/_install/  
make -j 4
```

### 4. Собрал бинарники и библиотеки в \_install/bin/ и \_install/lib/

```
ls bin/
```

```
ssh sshd
```

```
ls lib/
```

```
ld-linux-armhf.so.3 libc.so.6 libz.so libz.so.1  
libz.so.1.3.1.1-motley
```

Нужные библиотеки узнал через **readelf -d ./ssh** и **readelf -d ./sshd**

### 5. Добавил в \_install в busybox бинарники openssh и папку с библиотеками.

### 6. Собрал initramfs.cpio.gz

```
find . | cpio -o -H newc | gzip > initramfs.cpio.gz
```

## 7. Запустил QEMU

```
QEMU_AUDIO_DRV=node qemu-system-arm -M vexpress-a9 -kernel  
zImage -initrd initramfs.cpio.gz -dtb vexpress-v2p-ca9.dtb -nographic  
-append "console=ttyAMA0 rdinit=/bin/ash"QEMU_AUDIO_DRV=node  
qemu-system-arm -M vexpress-a9 -kernel zImage -initrd initramfs.cpio.gz  
-dtb vexpress-v2p-ca9.dtb -nographic -append "console=ttyAMA0  
rdinit=/bin/ash"
```

## 8. Результат

```
/bin/ash: can't access tty; job control turned off  
~ # ssh  
[ 13.351205] random: crng init done  
usage: ssh [-46AaCfGgKkMMNnqsTtVvXxYy] [-B bind_interface] [-b bind_address]  
[-c cipher_spec] [-D [bind_address:]port] [-E log_file]  
[-e escape_char] [-F configfile] [-I pkcs11] [-i identity_file]  
[-J destination] [-L address] [-l login_name] [-m mac_spec]  
[-O ctl_cmd] [-o option] [-P tag] [-p port] [-R address]  
[-S ctl_path] [-W host:port] [-w local_tun[:remote_tun]]  
destination [command [argument ...]]  
ssh [-Q query_option]
```