

# Studio2 Report

## STUDIO2

### Step1:

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### Step2:

I didn't run into any trouble. The whole things proceed smoothly.

### Step3:

I'm using my own WiFi network. I don't plan to prepare a seperate monitor, keyboard, and mouse for Raspberry Pi. So I decided to use SSH to get the contol of my Raspberry Pi. My personal computer is a Macbook Pro, which is friendly for CS student.

The proceeds are good as well. Basically, I make the Raspberry Pi connect to the WiFi, and then I can use ssh to ssh into the Pi.

### Step4:

(1) contains at least one lowercase alphabetic character	YES
(2) contains at least one uppercase character	YES
(3) contains at least one numerical character	YES
(4) contains at least one non-numeric, non-alphabetic character	YES
(5) is at least 8 characters long	YES

### Step5:

The hostname of my Raspberry Pi is: `lbxpi`.

### Step6:

The MAC address of my Raspberry Pi is: `b8:27:eb:f7:2e:d5`.

The IP address is `192.168.50.5`.

### Step7:

```

pi@lbpixi:~/Desktop $ cd boot_20200905_s2_7/
pi@lbpixi:~/Desktop/boot_20200905_s2_7 $ ls
bcm2708-rpi-b.dtb          bcm2710-rpi-cm3.dtb      fixup4x.dat              LICENCE.broadcom
bcm2708-rpi-b-plus.dtb     bcm2711-rpi-4-b.dtb     fixup_cd.dat             overlays
bcm2708-rpi-b-rev1.dtb     bcm2711-rpi-cm4.dtb     fixup.dat                start4cd.elf
bcm2708-rpi-cm.dtb         bootcode.bin            fixup_db.dat             start4db.elf
bcm2708-rpi-zero.dtb       cmdline.txt              fixup_x.dat              start4.elf
bcm2708-rpi-zero-w.dtb     config.txt               issue.txt                start4x.elf
bcm2709-rpi-2-b.dtb        COPYING.linux            kernel7.img              start_cd.elf
bcm2710-rpi-2-b.dtb        fixup4cd.dat             kernel7l.img             start_db.elf
bcm2710-rpi-3-b.dtb        fixup4.dat               kernel8.img              start.elf
bcm2710-rpi-3-b-plus.dtb   fixup4db.dat             kernel.img               start_x.elf
pi@lbpixi:~/Desktop/boot_20200905_s2_7 $ cd ..
pi@lbpixi:~/Desktop $ cd ..
pi@lbpixi:~ $ ls
Bookshelf  Downloads  linux_source  Pictures  Templates
Desktop    Music      Public        Videos
pi@lbpixi:~ $ cd linux_source/
pi@lbpixi:~/linux_source $ ls
boot  lib
pi@lbpixi:~/linux_source $ cd lib
pi@lbpixi:~/linux_source/lib $ sudo cp -rd * /lib/
pi@lbpixi:~/linux_source/lib $ cd ..
pi@lbpixi:~/linux_source $ KERNEL=kernel7
pi@lbpixi:~/linux_source $ sudo cp boot/dts/*.dtb /boot/
pi@lbpixi:~/linux_source $ sudo cp boot/dts/overlays/*.dtb* /boot/overlays
pi@lbpixi:~/linux_source $ sudo cp boot/dts/overlays/README /boot/overlays
pi@lbpixi:~/linux_source $ sudo cp boot/zImage /boot/$KERNEL.img
pi@lbpixi:~/linux_source $ reboot
Failed to set wall message, ignoring: Interactive authentication required.
Failed to reboot system via logind: Interactive authentication required.
Failed to open initctl fifo: Permission denied
Failed to talk to init daemon.
pi@lbpixi:~/linux_source $ sudo reboot
Connection to 192.168.50.5 closed by remote host.
Connection to 192.168.50.5 closed.
→ ~ pi
pi@192.168.50.5's password:
Linux lbpixi 5.4.42-v7bingxinliu #1 SMP PREEMPT Mon Sep 14 20:16:40 CDT 2020 armv7l

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the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Tue Sep 15 16:42:16 2020
pi@lbpixi:~ $ uname -a
Linux lbpixi 5.4.42-v7bingxinliu #1 SMP PREEMPT Mon Sep 14 20:16:40 CDT 2020 armv7l GNU/Linux
pi@lbpixi:~ $ █

```

