
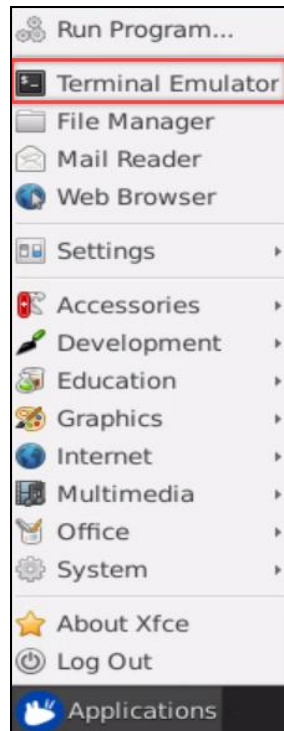


Lesson 2 Modify Wi-Fi

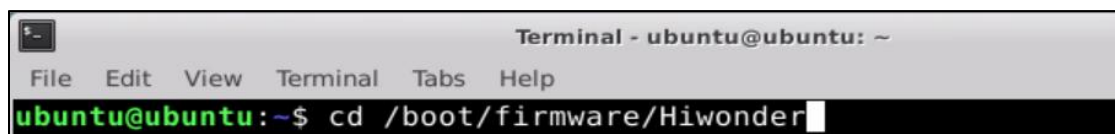
1.Modify Raspberry Pi Wi-Fi

The computer is supposed to connect to the hotspot started with “HW” which is launched by Raspberry Pi. When there are multiple robots around, the wrong connection may occur. If you want to modify the default Wi-Fi name and password, please check the following steps.

- 1) Click  and select “Terminal Emulator” to open Ubuntu terminal.



- 2) In the opened interface, enter command “`cd /boot/firmware/Hiwonder`” and press “Enter” to access to the directory of game programmings.



3) Enter command “`sudo vim wifi.yaml`” to open Wi-Fi configuration file via editor.

```
Terminal - ubuntu@ubuntu: /boot/firmware/Hiwonder
File Edit View Terminal Tabs Help
ubuntu@ubuntu:~$ cd /boot/firmware/Hiwonder
ubuntu@ubuntu:/boot/firmware/Hiwonder$ sudo vim wifi.yaml
```

4) The interface is as the figure shown below:

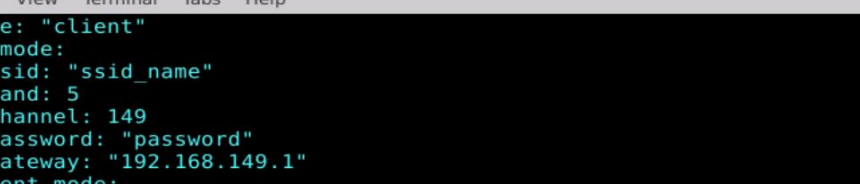
```

Terminal - ubuntu@ubuntu: /boot/firmware/Hiwonder
File Edit View Terminal Tabs Help
1 #mode: "client"
2 #ap_mode:
3 # ssid: "ssid_name"
4 # band: 5
5 # channel: 149
6 # password: "password"
7 # gateway: "192.168.149.1"
8 #client_mode:
9 # ssid: "LH_5G"
10 # password: "lehuansuoer3"
11 # timeout: 30

"wifi.yaml" 11L, 200C

```

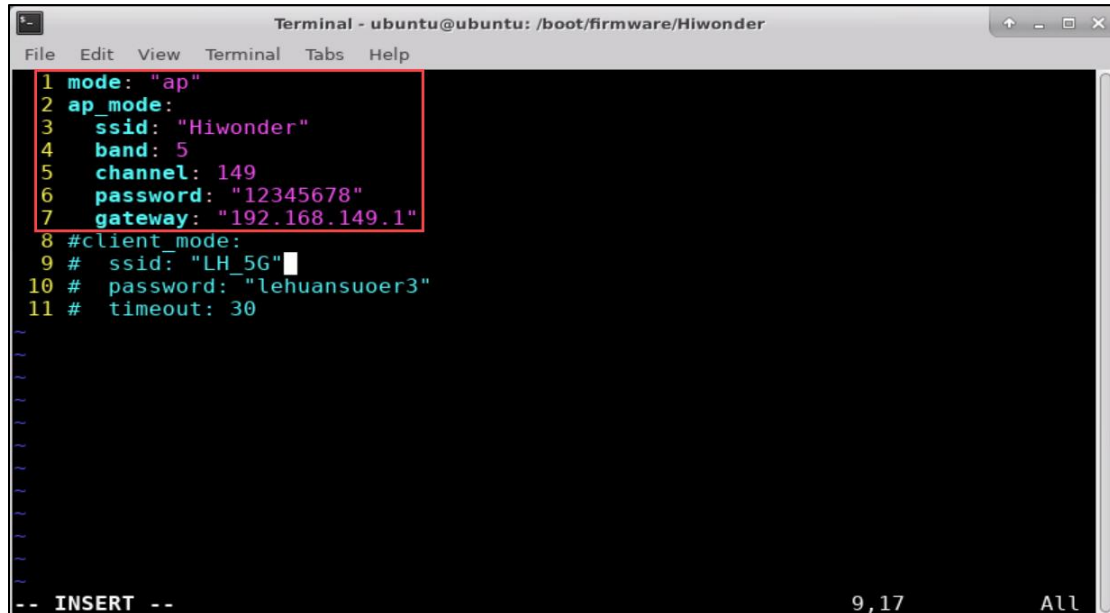
5) Press the "i" on the keyboard and then the "--Insert--" mark will be displayed on the interface. Please refer to the corresponding notes to modify.



```
Terminal - ubuntu@ubuntu: /boot/firmware/Hiwonder
File Edit View Terminal Tabs Help
1 #mode: "client"
2 #ap_mode:
3 #  ssid: "ssid_name"
4 #  band: 5
5 #  channel: 149
6 #  password: "password"
7 #  gateway: "192.168.149.1"
8 #client_mode:
9 #  ssid: "LH_5G"
10 #  password: "lehuansuoer3"
11 #  timeout: 30

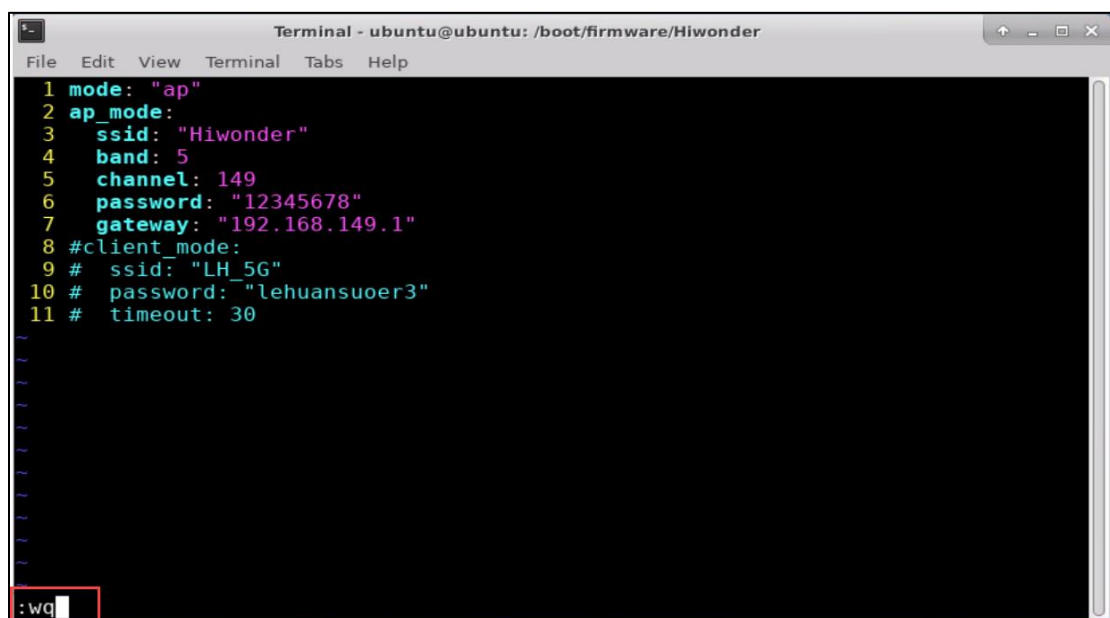
-- INSERT --
1.1 All
```

6) If want to modify the Raspberry Pi name as “Hiwonder” and password as “12345678”, you only need to revise the info as shown in the below figure. Do not forget to delete “#” to make it effective.



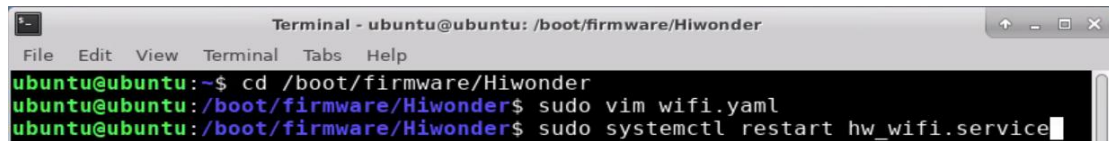
```
Terminal - ubuntu@ubuntu: /boot/firmware/Hiwonder
File Edit View Terminal Tabs Help
1 mode: "ap"
2 ap_mode:
3   ssid: "Hiwonder"
4   band: 5
5   channel: 149
6   password: "12345678"
7   gateway: "192.168.149.1"
8 #client_mode:
9 #   ssid: "LH_5G"
10 #   password: "lehuansuoer3"
11 #   timeout: 30
-- INSERT --
9,17 All
```

7) After the modification is complete, press “ESC” and enter “:wq”. Then save and exit the file.



```
Terminal - ubuntu@ubuntu: /boot/firmware/Hiwonder
File Edit View Terminal Tabs Help
1 mode: "ap"
2 ap_mode:
3   ssid: "Hiwonder"
4   band: 5
5   channel: 149
6   password: "12345678"
7   gateway: "192.168.149.1"
8 #client_mode:
9 #   ssid: "LH_5G"
10 #   password: "lehuansuoer3"
11 #   timeout: 30
:wq
```

8) Enter command “**sudo systemctl restart hw-wifi.service**”. Then NoMachine will disconnect automatically and restart.

A terminal window titled "Terminal - ubuntu@ubuntu: /boot/firmware/Hiwonder" with a menu bar (File, Edit, View, Terminal, Tabs, Help). The terminal shows three lines of commands: 1. "ubuntu@ubuntu:~\$ cd /boot/firmware/Hiwonder" 2. "ubuntu@ubuntu:/boot/firmware/Hiwonder\$ sudo vim wifi.yaml" 3. "ubuntu@ubuntu:/boot/firmware/Hiwonder\$ sudo systemctl restart hw_wifi.service" with a cursor at the end.

```
Terminal - ubuntu@ubuntu: /boot/firmware/Hiwonder
File Edit View Terminal Tabs Help
ubuntu@ubuntu:~$ cd /boot/firmware/Hiwonder
ubuntu@ubuntu:/boot/firmware/Hiwonder$ sudo vim wifi.yaml
ubuntu@ubuntu:/boot/firmware/Hiwonder$ sudo systemctl restart hw_wifi.service
```

9) After restarting robot, the name of robot will be changed to “Hiwonder” and the password to “12345678”.