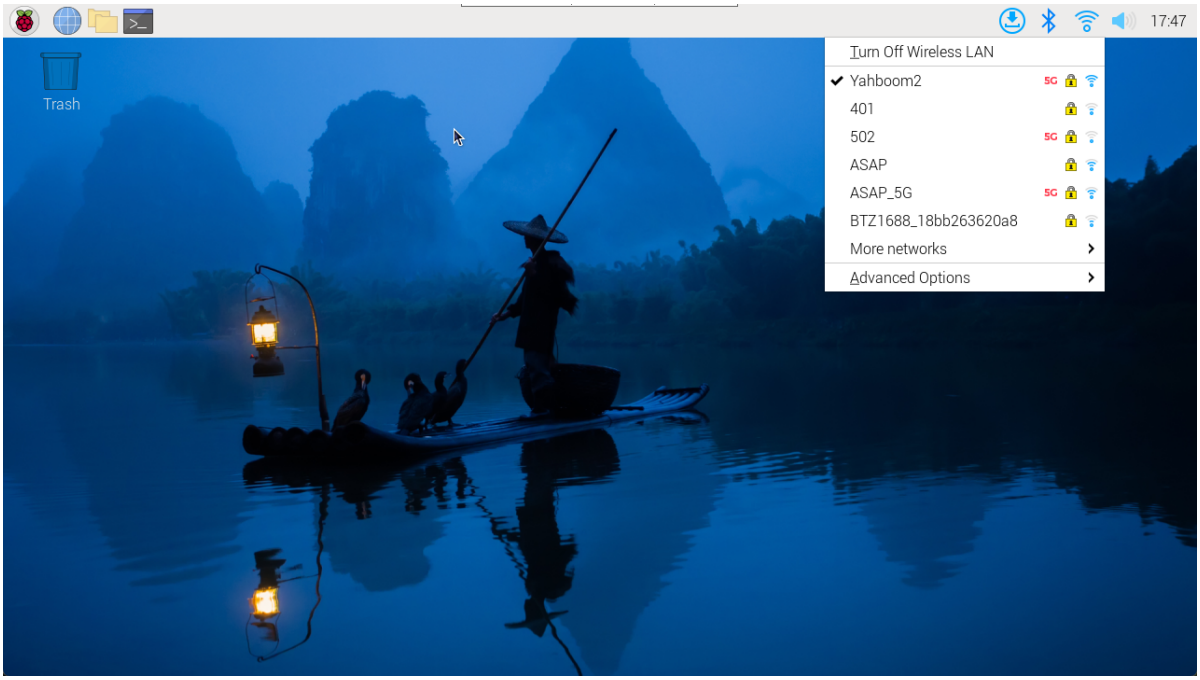
Network Configuration

Network configuration mainly introduces WiFi connection and hotspot opening.

1. WiFi connection

- ### Graphical interface

Using the Raspberry Pi graphical desktop system, we can connect to the corresponding WiFi by clicking the network icon in the upper right corner of the menu bar.




```
Note: If the region is not set, you need to set the region before connecting to
the network for the first time before you can configure the network.
```

- ### Command Line

For systems without a graphical interface, you can configure the network through the command line.

```
Note: You need to use the raspi-config tool to set the WLAN country/region first,
and then use the command line to configure the network.
```

Use the raspi-config tool: enter sudo raspi-config in the terminal

Set WLAN country:

Localization Options → WLAN Country → CN China → OK

After completing the above option settings, select Finish to exit the raspi-config tool.

View WiFi enabled status command: nmcli radio wifi

Turn on WiFi status command: nmcli radio wifi on

Turn off WiFi status command: nmcli radio wifi off

Find network command: sudo nmcli dev wifi list

```
pi@raspberrypi:~ $ sudo nmcli dev wifi list
IN-USE  BSSID              SSID                MODE   CHAN  RATE        SIGNAL  BARS  SECURITY
        3C:06:A7:D9:FB:07  yahboom_Exhibition  Infra  6     405 Mbit/s  100           WPA1 WPA2
        3C:6A:48:8D:97:52  Yahboom1_2.4G       Infra  11    270 Mbit/s  100           WPA2 WPA3
        3C:6A:48:8D:97:53  Yahboom1_5G         Infra  44    270 Mbit/s  100           WPA2 WPA3
*       80:8F:1D:20:9D:FC  Yahboom2            Infra  149   540 Mbit/s  100           WPA2
        3E:06:A7:A9:FB:07  --                  Infra  6     405 Mbit/s  99            WPA1 WPA2
        3C:6A:48:8D:9C:6B  Yahboom1_2.4G       Infra  6     270 Mbit/s  97            WPA2 WPA3
        0E:F9:F8:2D:58:2A  --                  Infra  1     270 Mbit/s  92            WPA1 WPA2
        94:0E:6B:C7:14:B8  SC-OFFICE           Infra  2     270 Mbit/s  90            WPA1 WPA2
        94:0E:6B:C7:14:B9  --                  Infra  2     270 Mbit/s  90            WPA2
        04:F9:F8:2D:58:2A  Yahboom3            Infra  1     270 Mbit/s  89            WPA1 WPA2
        3C:6A:48:8D:9C:6C  Yahboom1_5G         Infra  44    270 Mbit/s  82            WPA2 WPA3
```

Connect to the network command: sudo nmcli --ask dev wifi connect <example_ssid>

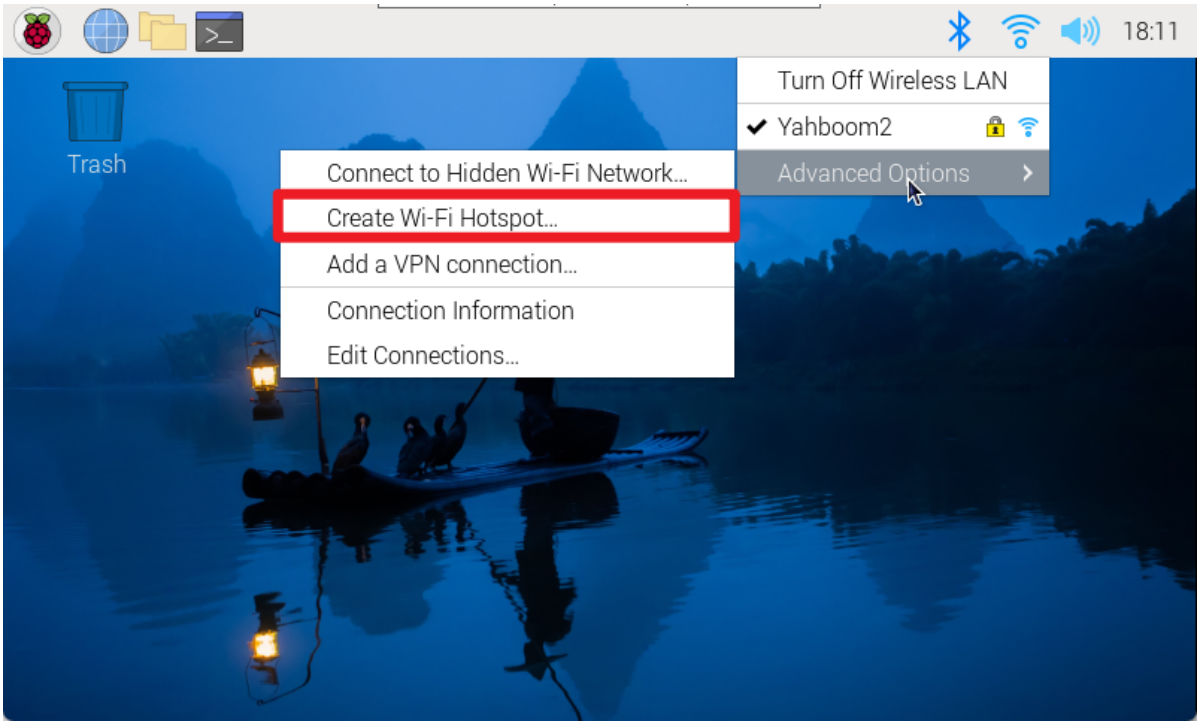
```
pi@raspberrypi:~ $ sudo nmcli --ask dev wifi connect Yahboom1_5G
Password: ••••••••••••
Device 'wlan0' successfully activated with 'c365ec56-e3af-4928-9510-5ca09f08ad86'.
```

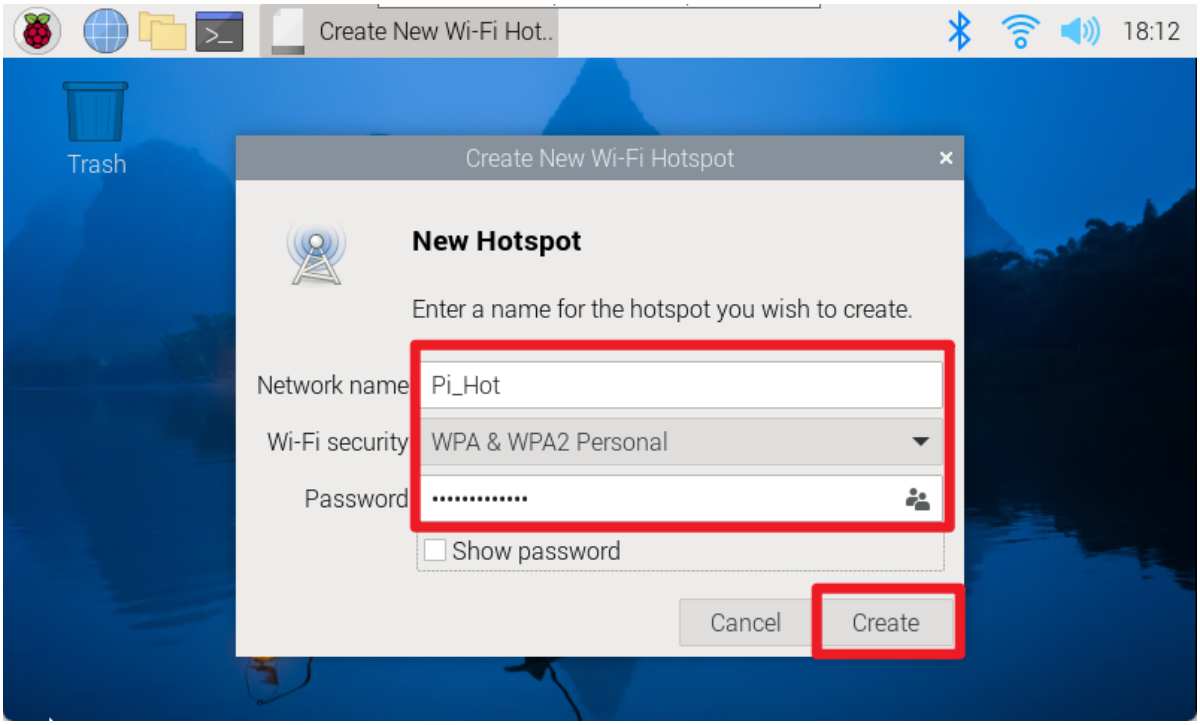
> Note: If it is displayed that you do not have permission to operate, please add sudo in front of all commands.

The above information prompt appears indicating that the WiFi connection is successful!

2. Turn on hotspot

Using the Raspberry Pi graphical desktop system, we can create a hotspot by clicking the network icon in the upper right corner of the menu bar.



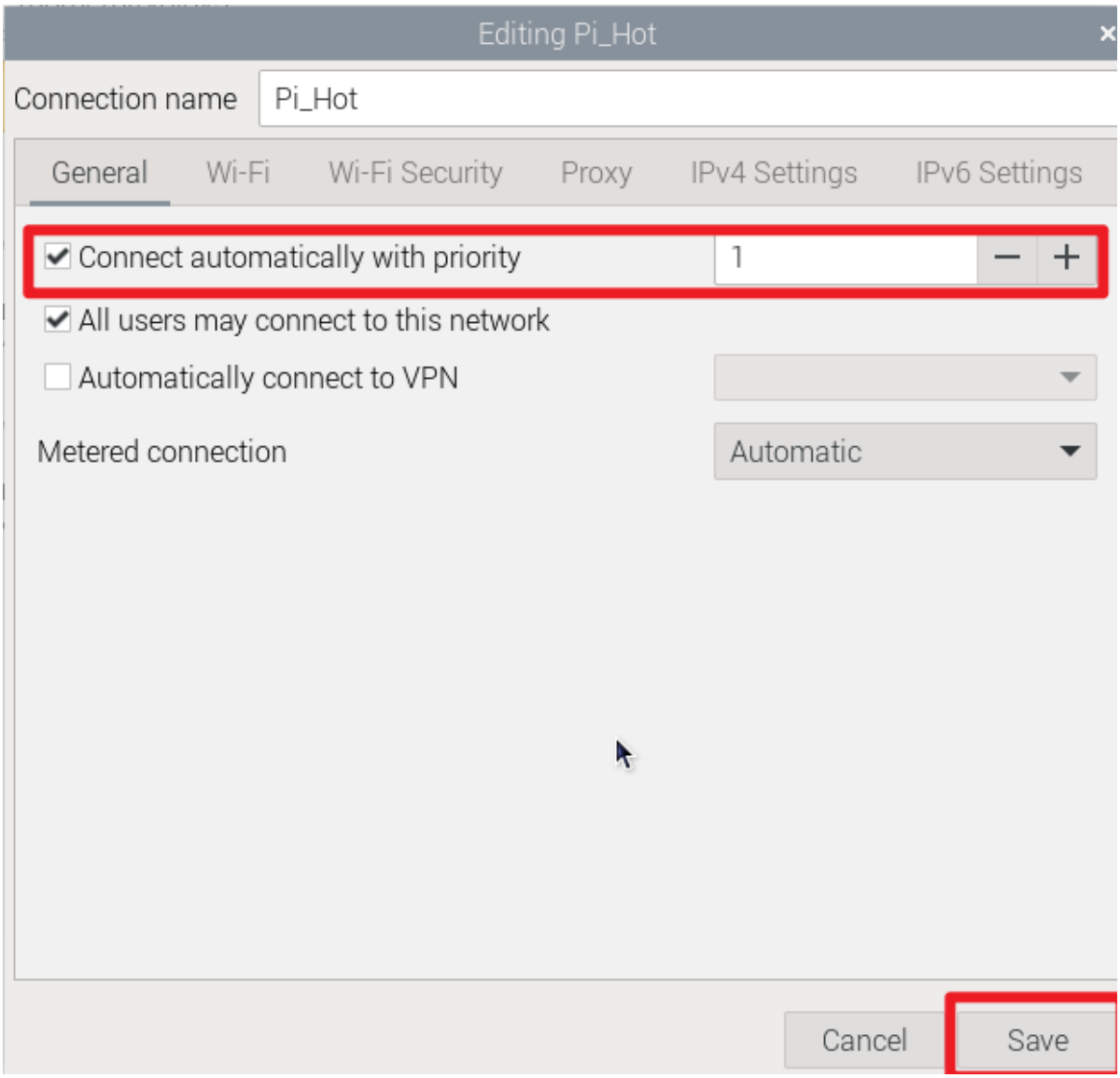


After the creation is successful, you can use your mobile phone to view the hotspot!

3. Hotspot/WiFi starts automatically after booting

We can set up the Raspberry Pi system to connect to WIFI or turn on a hotspot by modifying the priority of the network settings.

```
The higher the priority number, the better the connection method will be!
```


Editing Pi_Hot
Connection name
Pi_Hot
General
Wi-Fi
Wi-Fi Security
Proxy
IPv4 Settings
IPv6 Settings
Connect automatically with priority
1
All users may connect to this network
Automatically connect to VPN
Metered connection
Automatic
Cancel
Save