

Network Configuration

Network Configuration

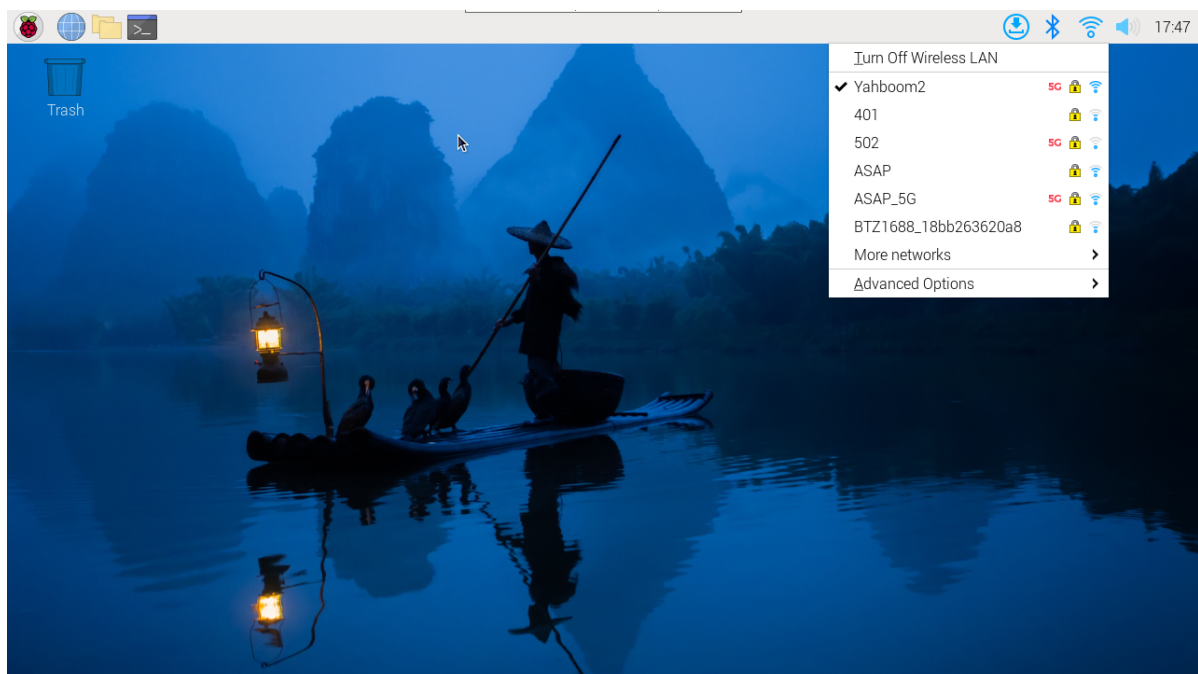
1. WiFi connection
2. Turn on hotspot
3. Hotspot/WiFi starts automatically after booting

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>

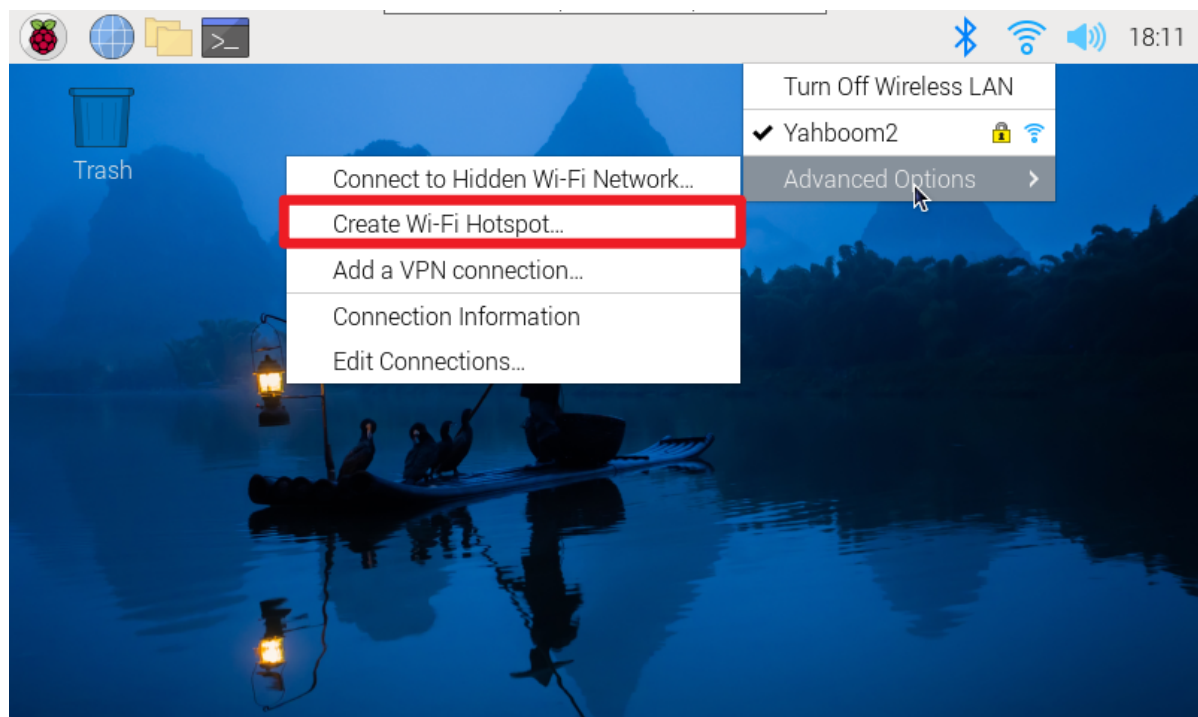
```
pi@raspberrypi:~ $ sudo nmcli --ask dev wifi connect Yahboom1_5G
Password: .....
Device 'wlan0' successfully activated with 'c365ec56-e3af-4928-9510-5ca09f08ad86'.
```

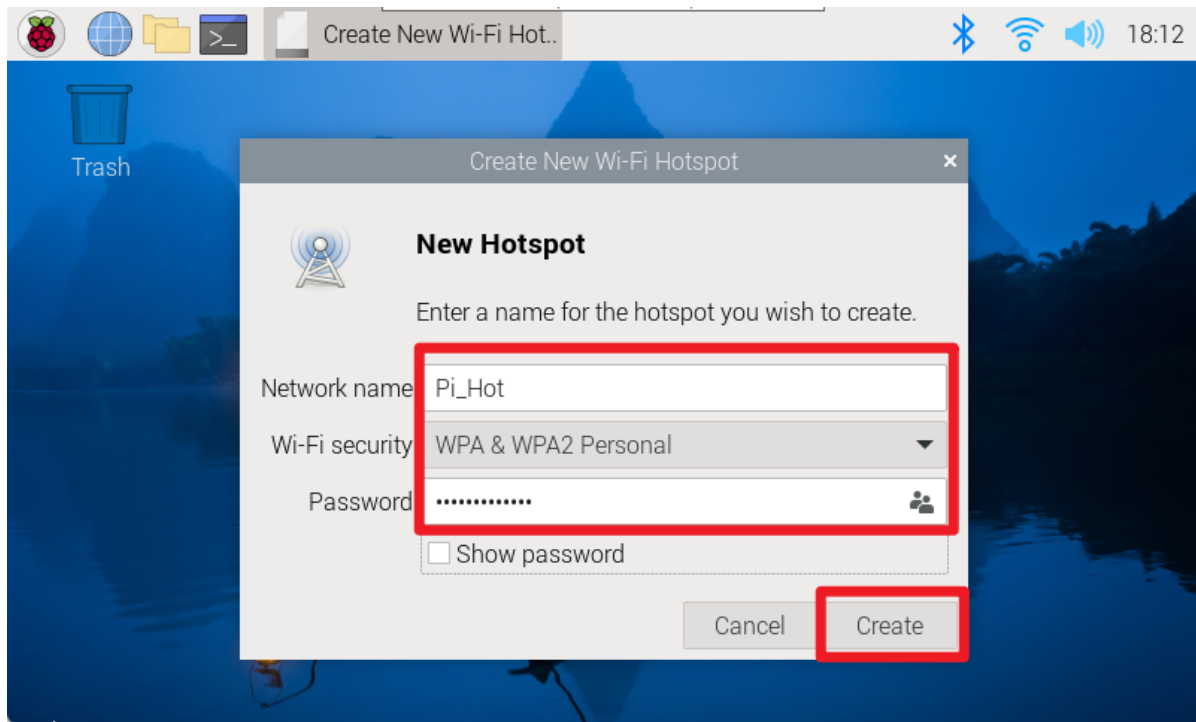
Note: If it is displayed that you do not have permission to operate, please add sudo in front of all commands.

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 namePi_Hot

GeneralWi-FiWi-Fi SecurityProxyIPv4 SettingsIPv6 Settings

☒ Connect automatically with priority1-+

☒ All users may connect to this network

☐ Automatically connect to VPN

Metered connectionAutomatic

CancelSave