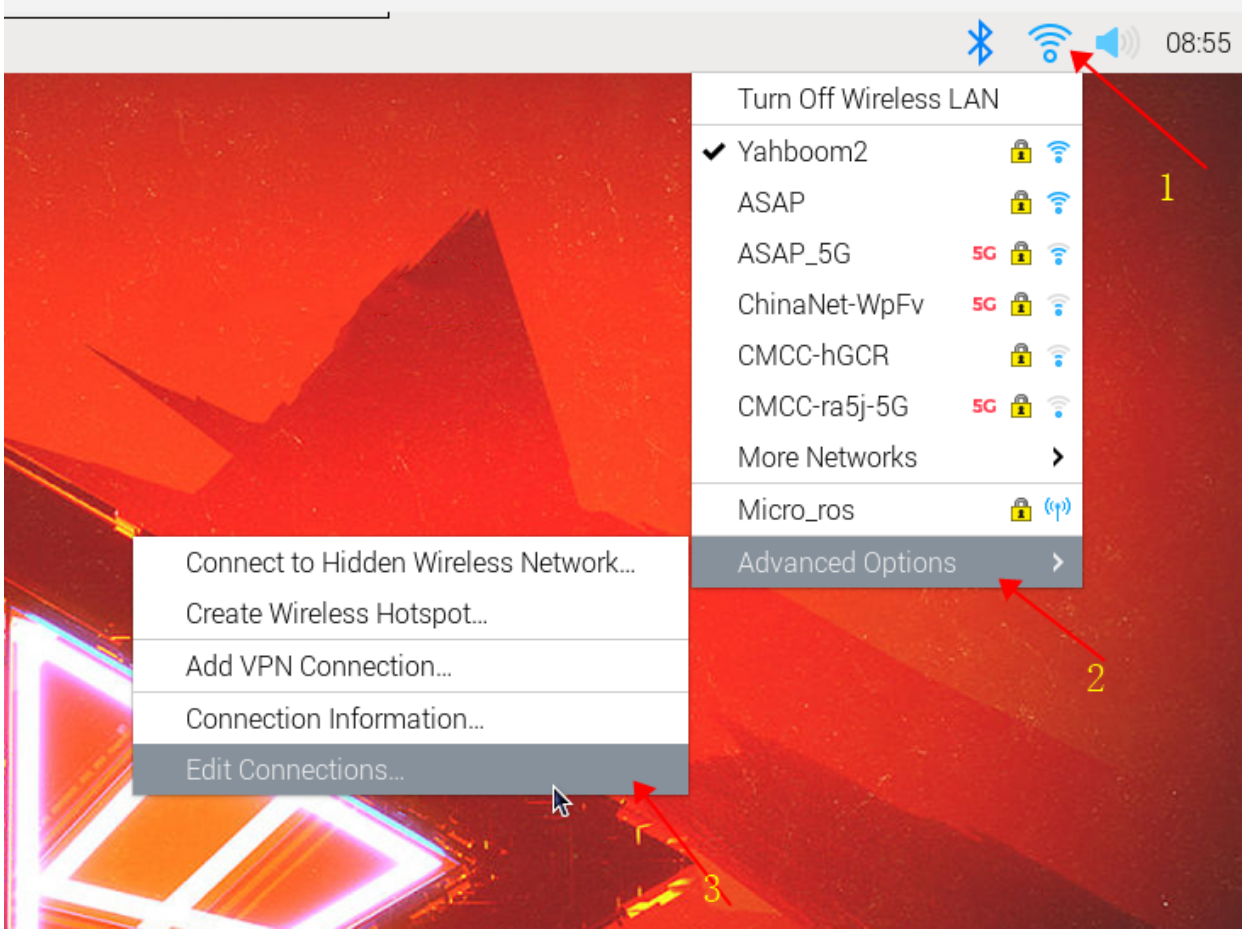
Connect to WIFI in hotspot mode

1、Has a monitor

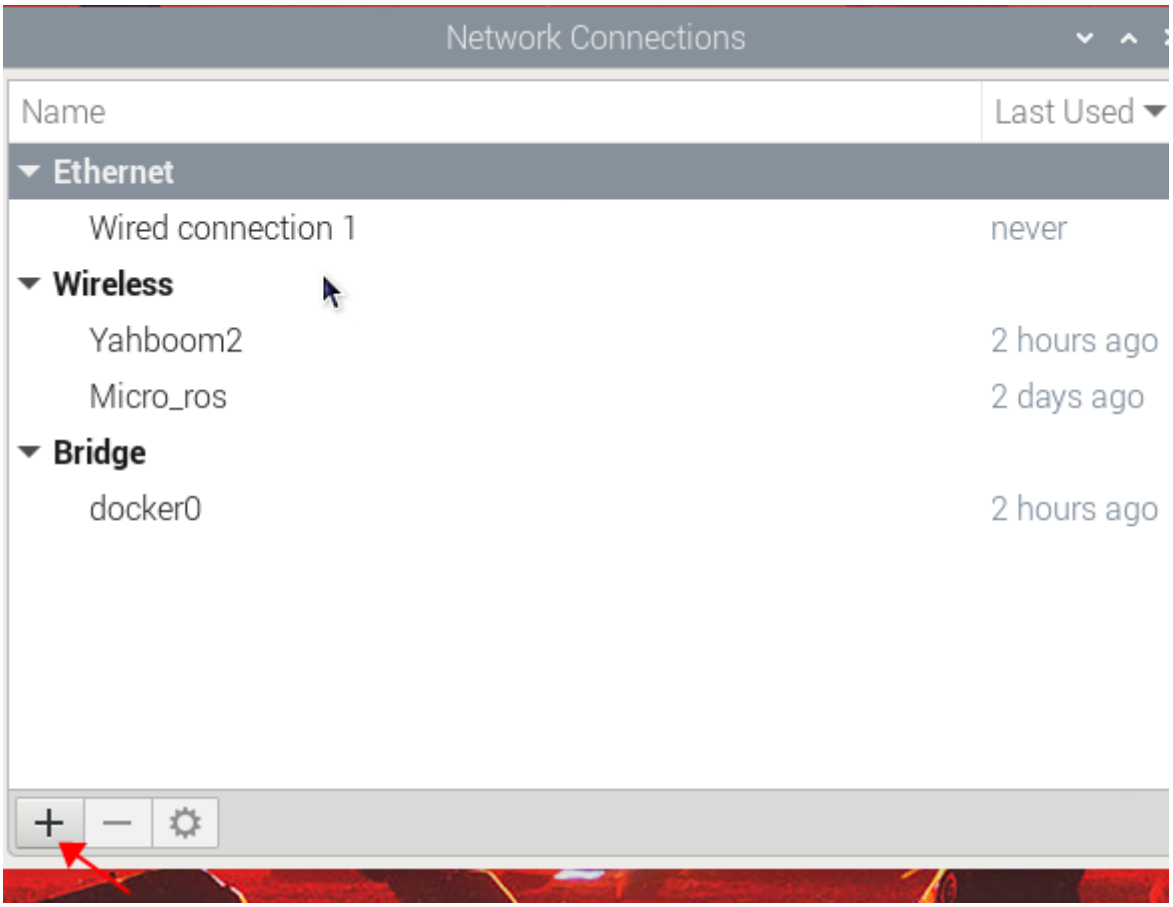
Connect the Raspberry Pi motherboard to the monitor, turn off the hotspot directly, and connect to WiFi! (This step requires removing the casing)

2、No monitor

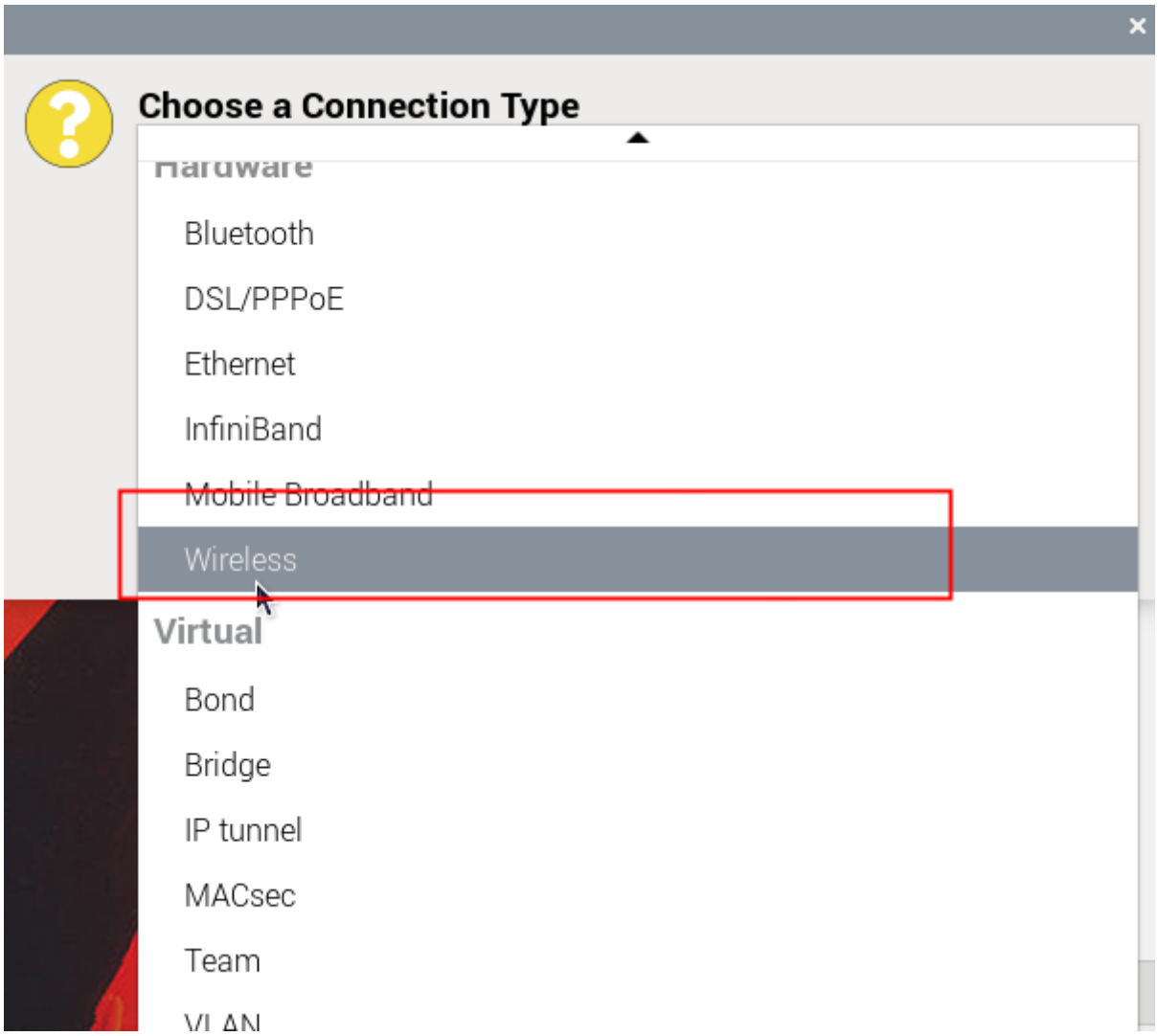
①：Click the "WiFi" icon in the upper right corner → Advanced Options → Edit Connections...;



②：On the network connection interface, click the **"+"** option in the lower left corner to create a WiFi connection.

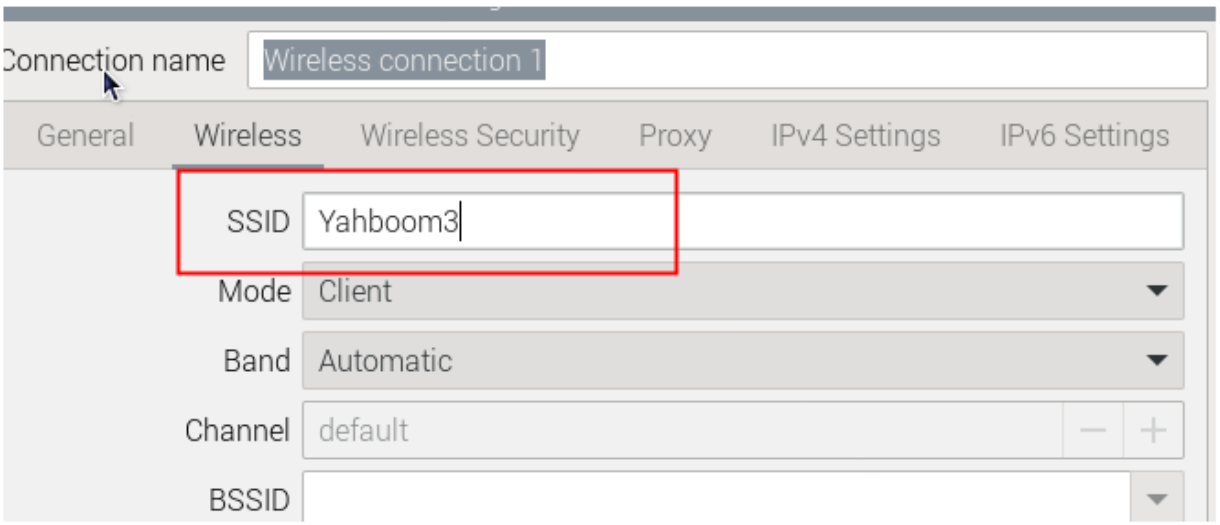


Then select wireless.

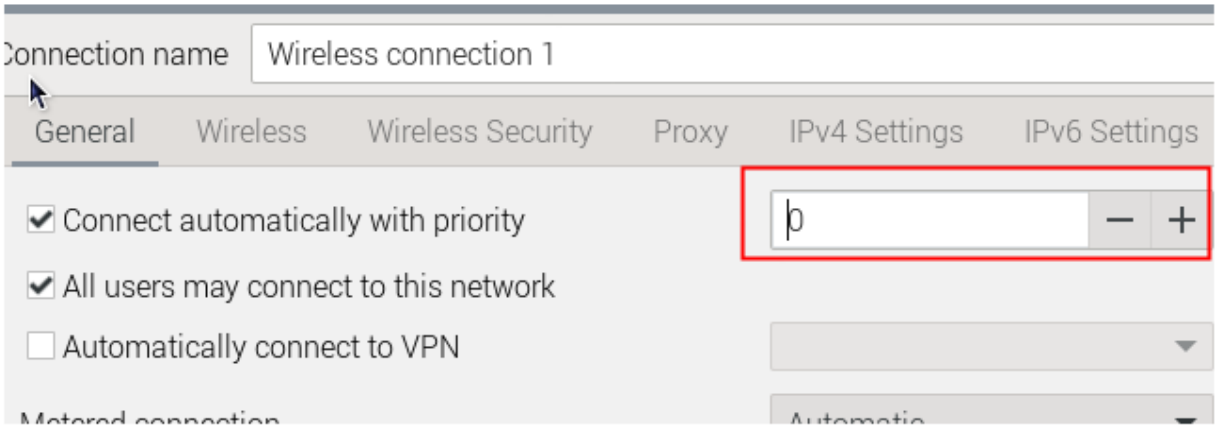


The following needs to be set:

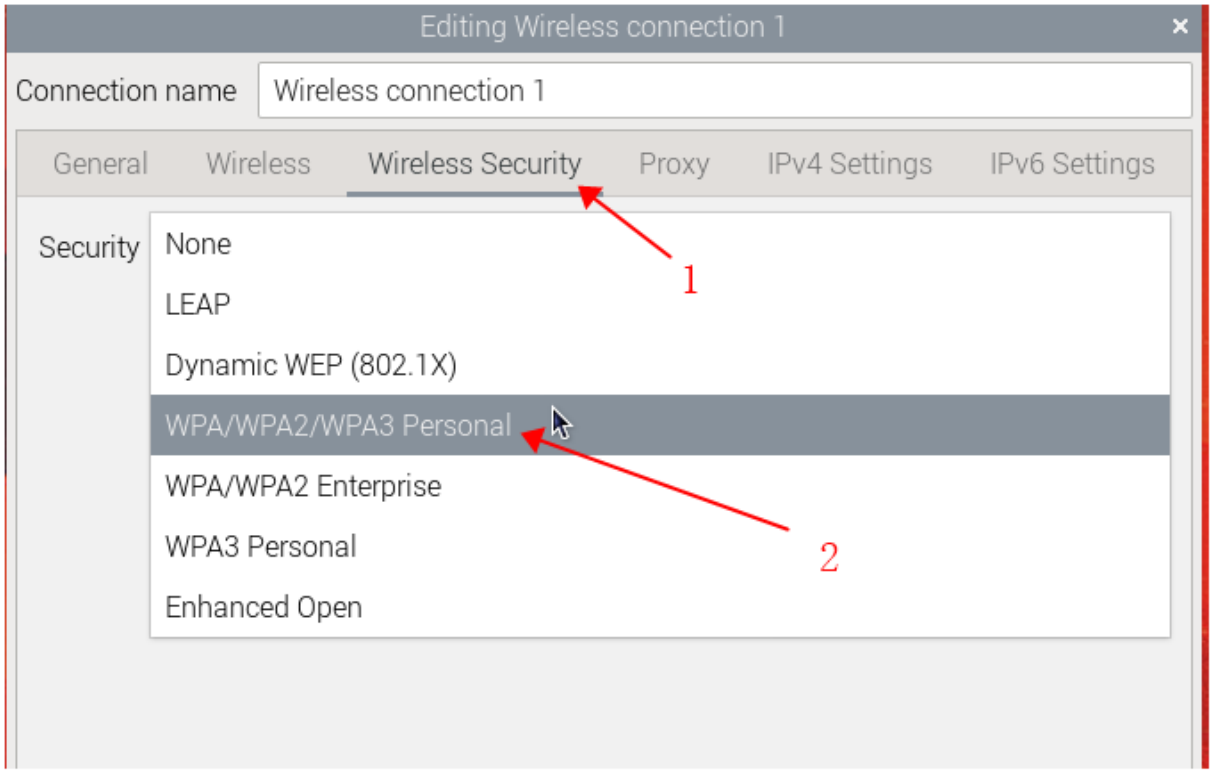
SSID: WiFi name:



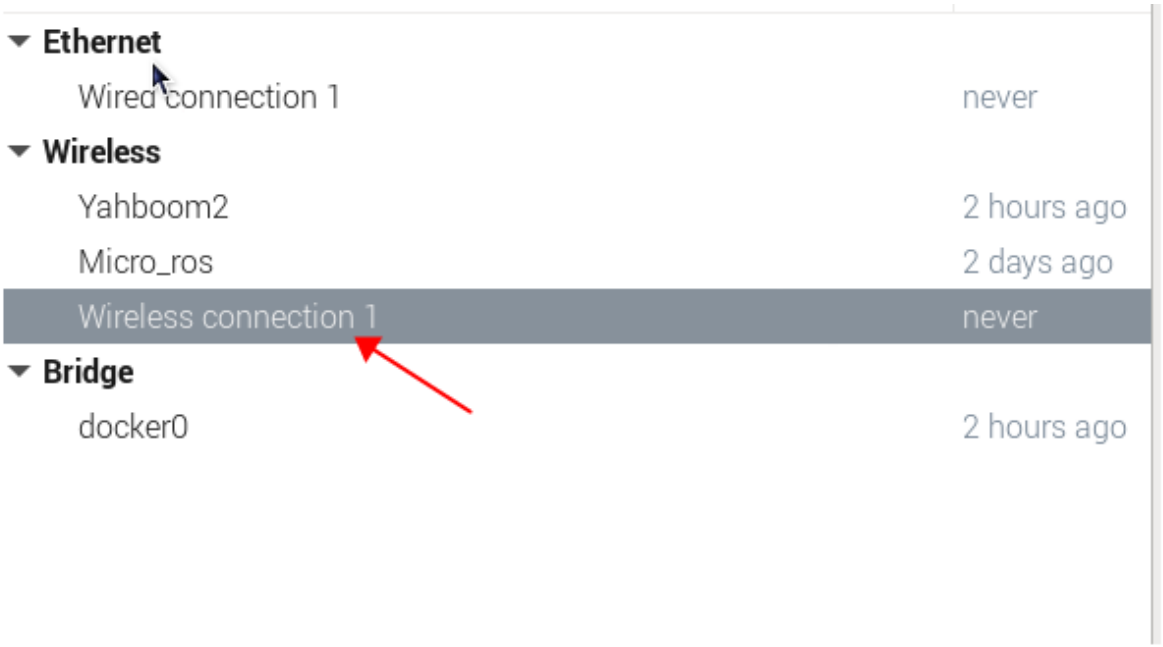
General: Check "Connect automatically with priority" and increase the priority. It is recommended to set the number ≥ 2. The hotspot mode is set to 1, so the priority of the WiFi connection needs to be greater than the priority of the hotspot;



WiFi Security: If there is a password, use "WPA/WPA2/WPA3 Personal" and then enter the password;



Click save to save and exit. When the following screen appears, it is successful. The name can be modified by yourself.

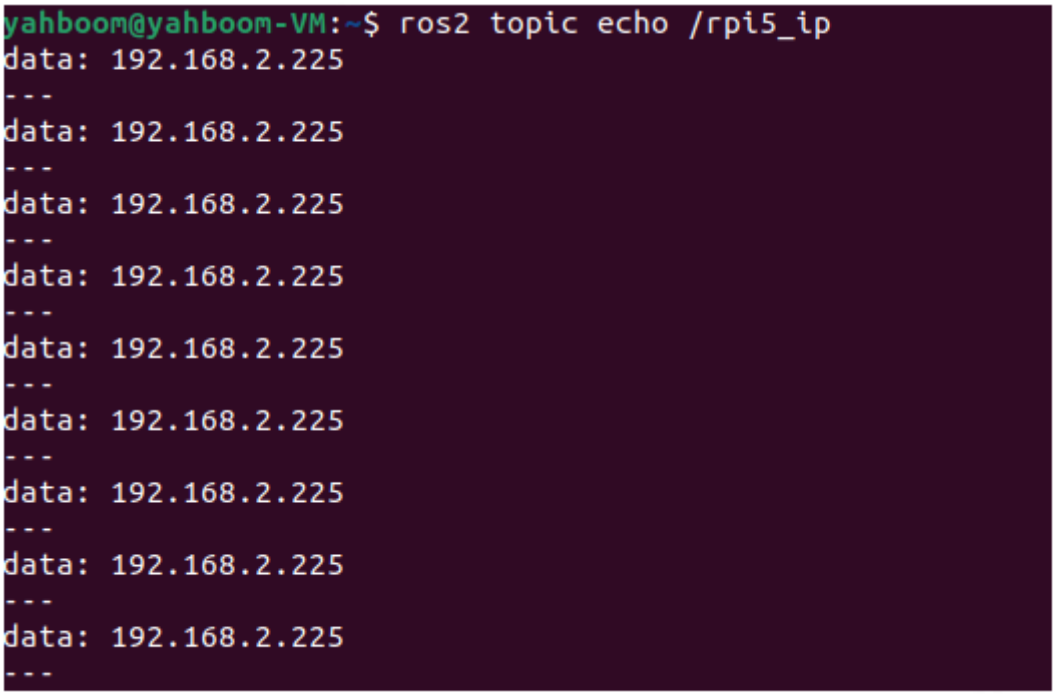


③: After setting the above options, the Raspberry Pi will give priority to connecting to WiFi when it restarts!

④: Find the Raspberry Pi IP: After the Raspberry Pi restarts, it will automatically connect to the wifi you just set up. **Wait for more than ten seconds and then open the virtual machine provided in the information**, then open the terminal and enter the command.

```
ros2 topic echo /rpi5_ip
```

You can find the current wifi IP, as shown in the figure below.



Another situation is that if you have multiple machines connected to the same WiFi, multiple IPs will appear. In this case, you can manually control the variables to identify the IPs.

```
^Cyahboom@yahboom-VM:~$ ros2 topic echo /rpi5_ip
data: 192.168.2.225
---
data: 192.168.2.127
---
data: 192.168.2.225
---
data: 192.168.2.127
---
data: 192.168.2.225
---
data: 192.168.2.127
---
data: 192.168.2.225
---
data: 192.168.2.127
---
data: 192.168.2.225
```

⑤: After knowing the IP, you can remotely log in to the Raspberry Pi system to control it.