VNC remote and network switching

Since Dofbot's Raspberry Pi 5 and Jetson nano versions are shipped from the factory in hotspot mode, all you need to do to maintain the same LAN is connect the device to Dofbot's hotspot!

However, some users may need to use the external network to download files during use, so they need to turn off the hotspot mode and switch to WiFi mode. To maintain the same LAN, all devices need to be connected to the same WiFi!

```
If you are experiencing our product functions in the early stage, there is no
need to switch networks.
```

1. VNC remote access

Users need to install the `RealVNC® Viewer` software in advance, and then connect according to the IP displayed by Dofbot's OLED.

```
The prerequisite for remote access is that the system's VNC service is turned on.
This function is turned on by default when using our factory image.
```

raspberry pie

Prerequisites

> **Same LAN**

It is necessary to ensure that the remote device is in the same LAN. Generally, the computer/mobile phone is connected to the Raspberry Pi hotspot or the Raspberry Pi and the computer/mobile phone are connected to the same WiFi.

> **Remote Information**

Dofbot's factory hotspot information: (The default IP address is 192.168.1.11, you can confirm the IP information by viewing the OLED display)

Hotspot name: Dofbot

Password: 12345678

System user information:

Username: pi

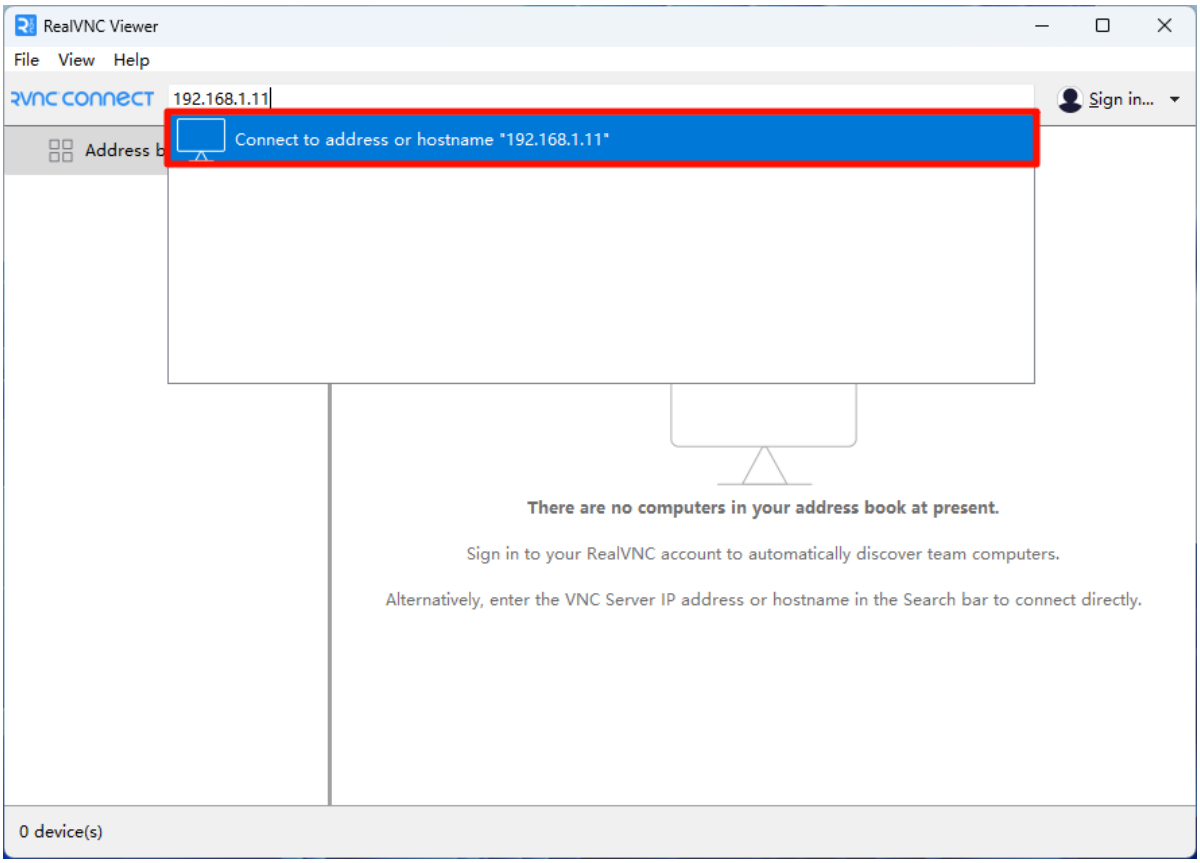
Password:yahboom

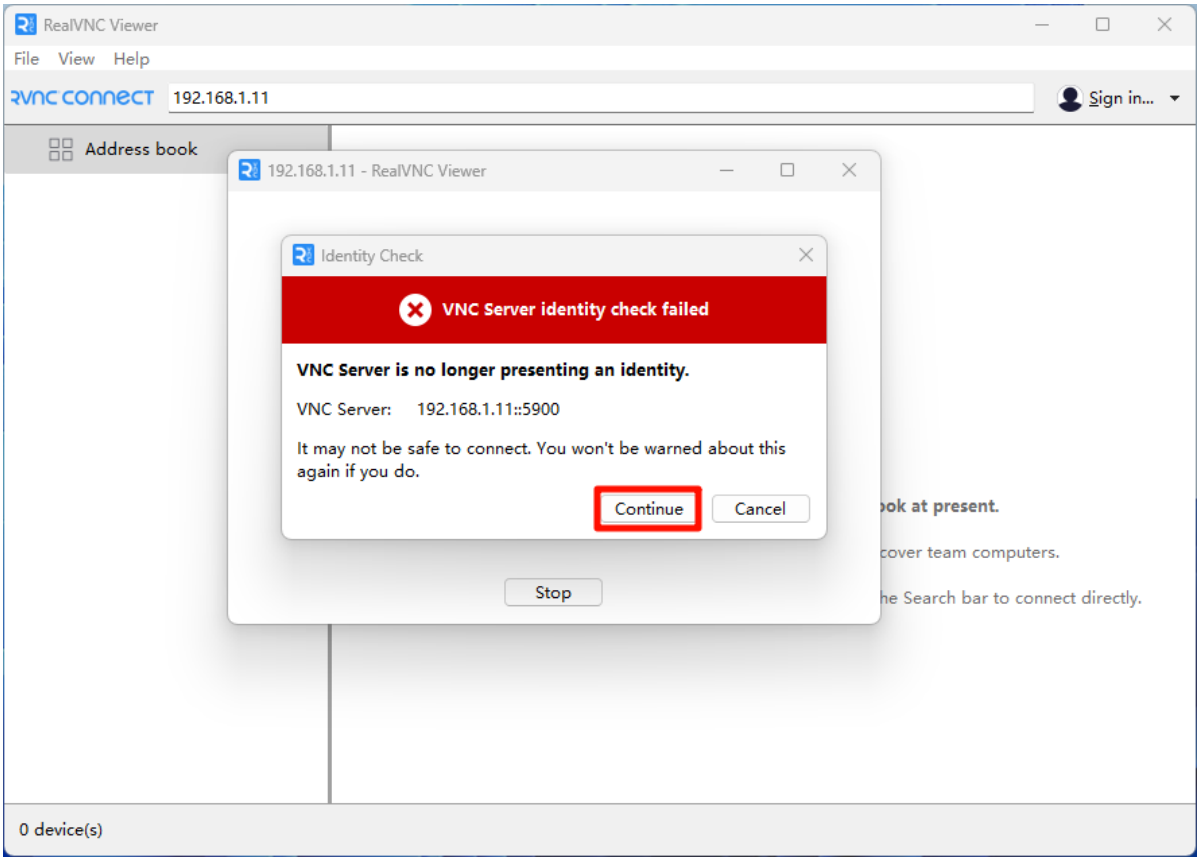
```
Remote control needs to be on the same LAN: When connecting the computer to the Raspberry Pi hotspot, please select "Connect using a security key instead" and then enter the password!
```

VNC connection

Enter Dofbot’s IP address: 192.168.1.11

```
If there is only a Raspberry Pi hotspot and there is no display on the OLED display, it means that the system starts normally but docker is abnormal. Since the startup program and the automatic startup of the OLED display service are both set in the docker image, the OLED display system information indicates that the system and docker have started successfully!
```


RealVNC Viewer
File View Help
VNC connect
192.168.1.11
Sign in...
Address b
Connect to address or hostname "192.168.1.11"
There are no computers in your address book at present.
Sign in to your RealVNC account to automatically discover team computers.
Alternatively, enter the VNC Server IP address or hostname in the Search bar to connect directly.
0 device(s)


RealVNC Viewer
File View Help
VNC connect
192.168.1.11
Sign in...
Address book
192.168.1.11 - RealVNC Viewer
Identity Check
VNC Server identity check failed
VNC Server is no longer presenting an identity.
VNC Server: 192.168.1.11::5900
It may not be safe to connect. You won't be warned about this again if you do.
Continue
Cancel
Stop
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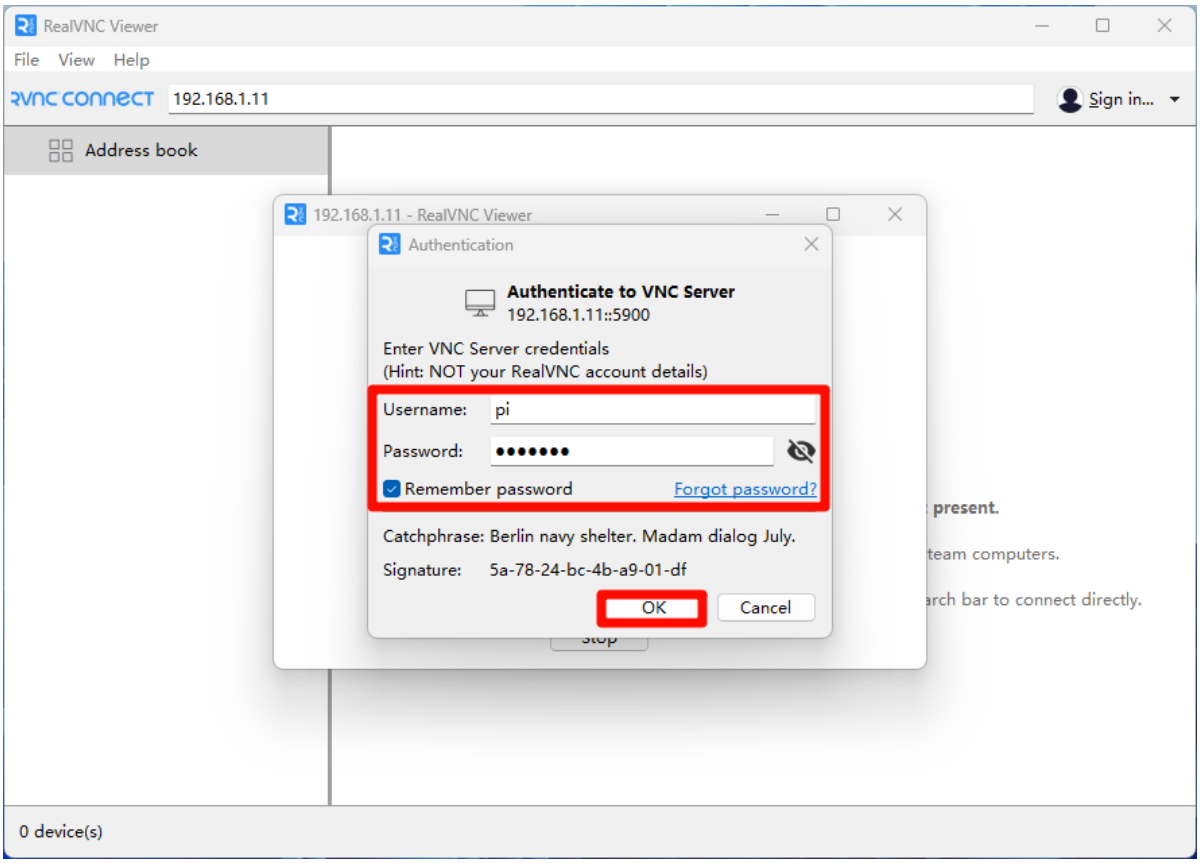
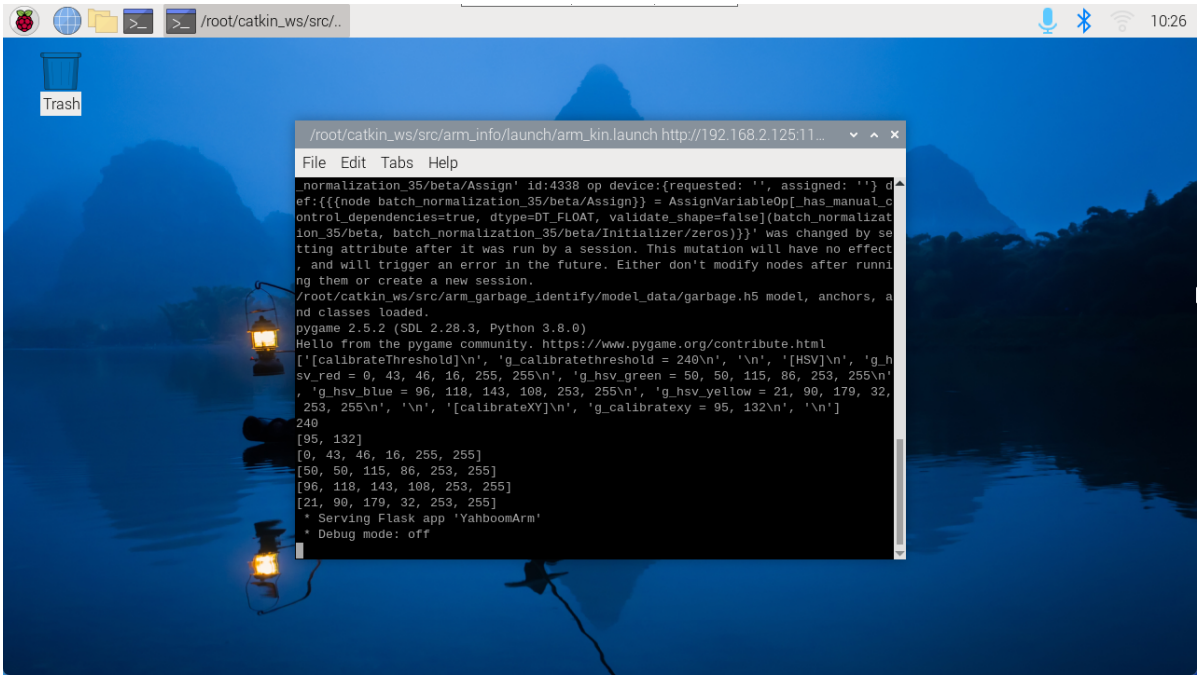
0 device(s)



Remote success

Among them, the terminal that starts at boot is the Dofbot startup program. We can judge whether the startup program is running normally by observing this terminal!



Jetson motherboard

Prerequisites

> ### Same LAN

It is necessary to ensure that the remote device is in the same LAN. Generally, the computer/mobile phone is connected to the Raspberry Pi hotspot or the Raspberry Pi and the computer/mobile phone are connected to the same WiFi.

> **Remote Information**

Dofbot's factory hotspot information: (The default IP address is 192.168.1.11, you can confirm the IP information by viewing the OLED display)

Hotspot name: Dofbot

Password: 12345678

System user information:

Username: jetson

Password:yahboom

```
Remote control needs to be on the same LAN: When connecting the computer to the Raspberry Pi hotspot, please select "Connect using a security key instead" and then enter the password!
```

VNC connection

Enter Dofbot's IP address: 192.168.1.11

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If there is only a Raspberry Pi hotspot and there is no display on the OLED display, it means that the system starts normally but docker is abnormal. Since the startup program and the automatic startup of the OLED display service are both set in the docker image, the OLED display system information indicates that the system and docker have started successfully!
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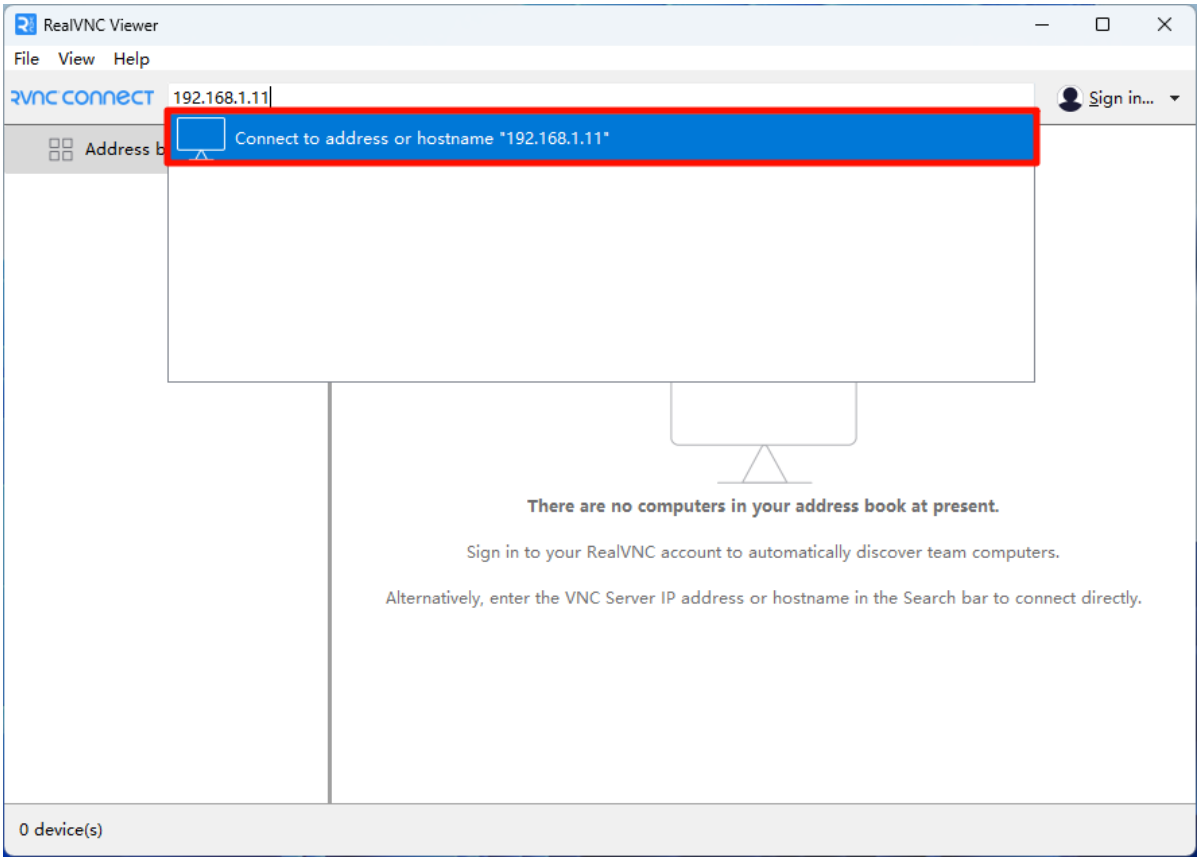

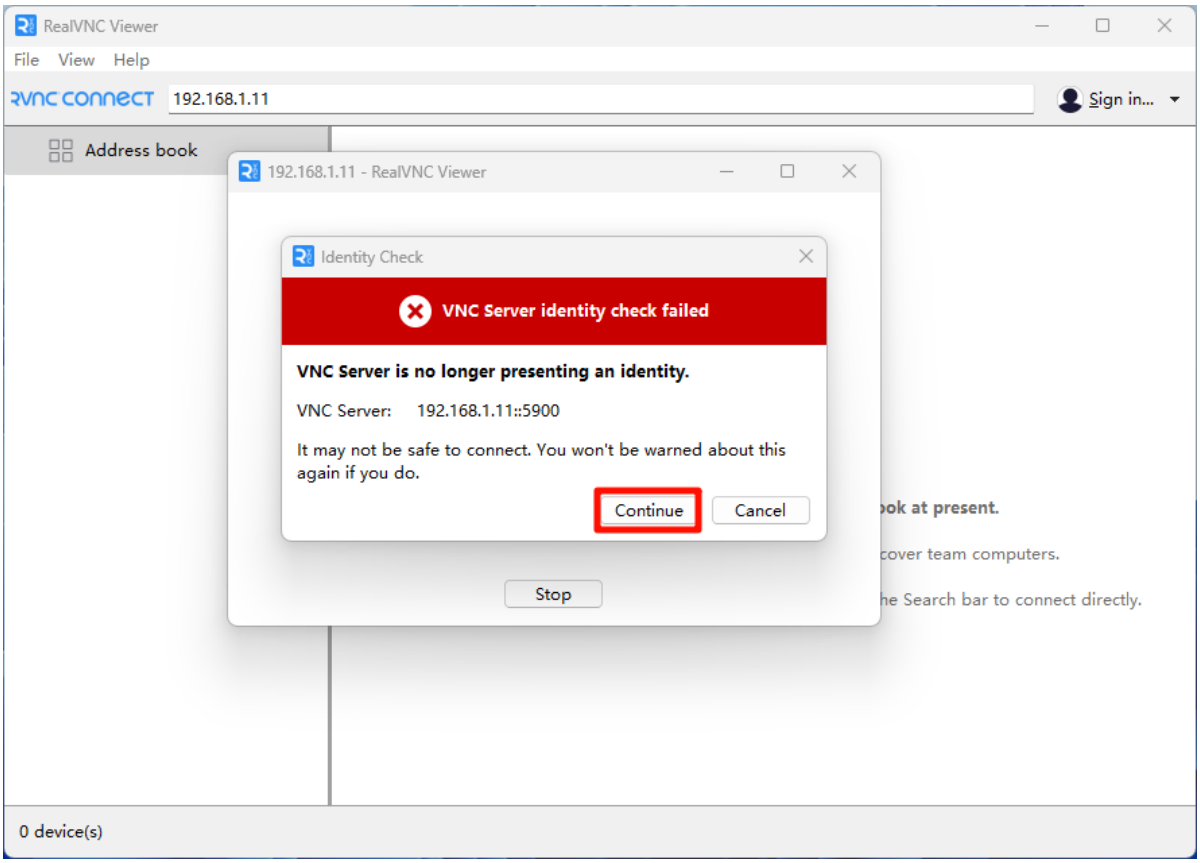
RealVNC Viewer
File View Help
VNC connect
192.168.1.11
Sign in...
Address book
192.168.1.11 - RealVNC Viewer
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VNC Server identity check failed
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Cancel
Stop
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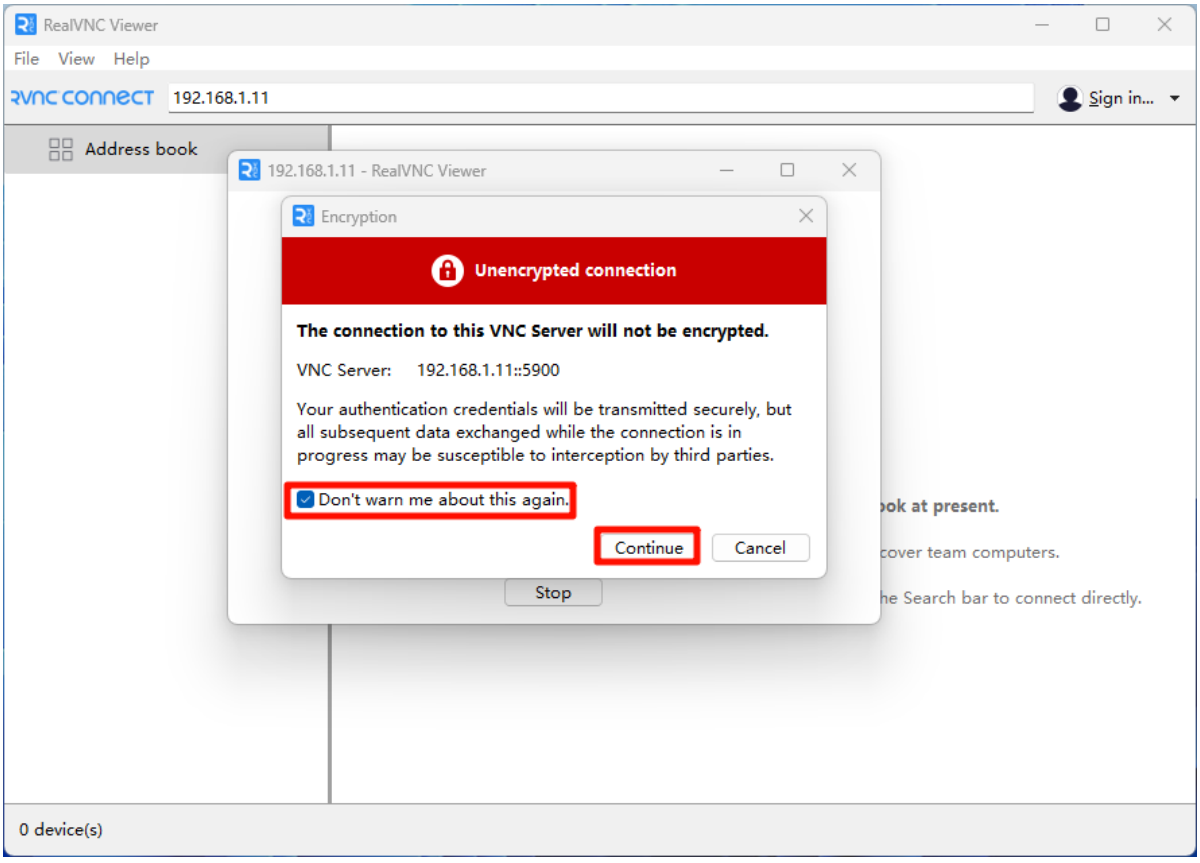
RealVNC Viewer
File View Help
VNC connect
192.168.1.11
Sign in...
Address book
192.168.1.11 - RealVNC Viewer
Encryption
Unencrypted connection
The connection to this VNC Server will not be encrypted.
VNC Server: 192.168.1.11::5900
Your authentication credentials will be transmitted securely, but all subsequent data exchanged while the connection is in progress may be susceptible to interception by third parties.
Don't warn me about this again.
Continue
Cancel
Stop
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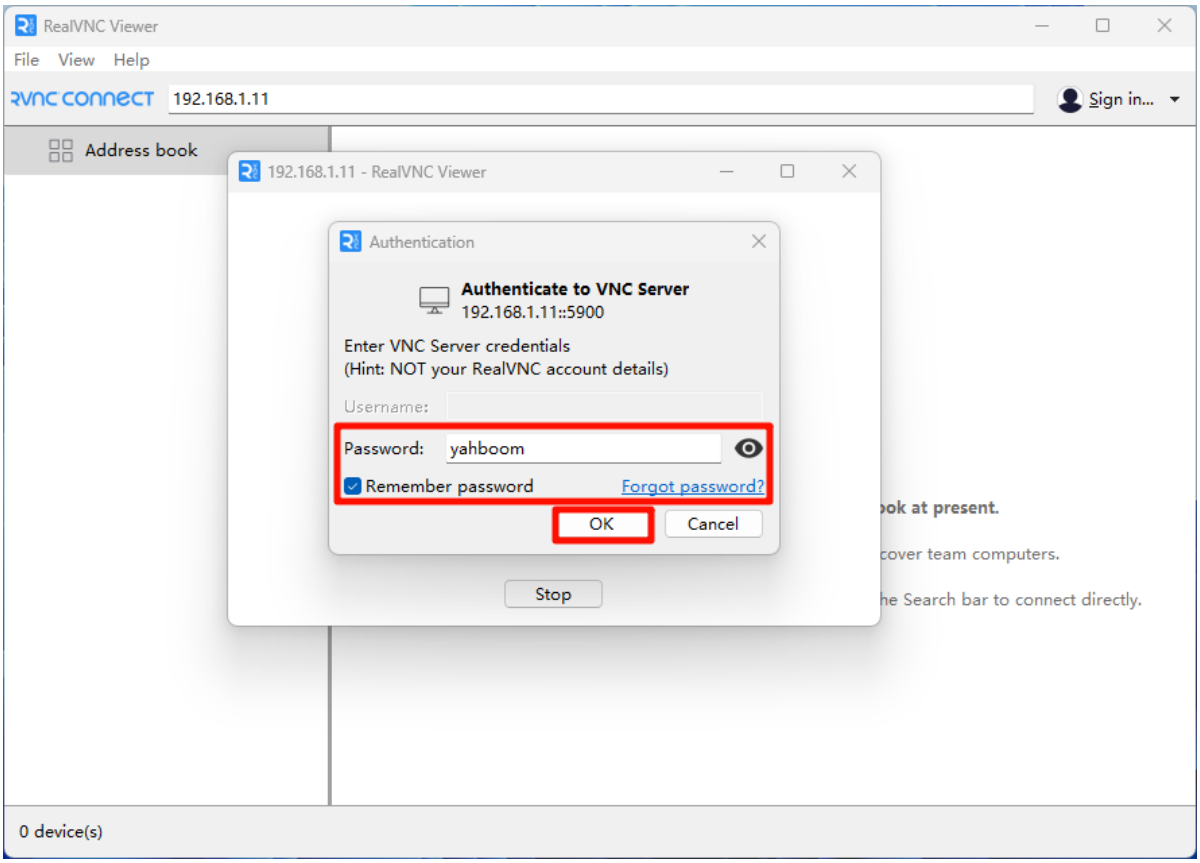
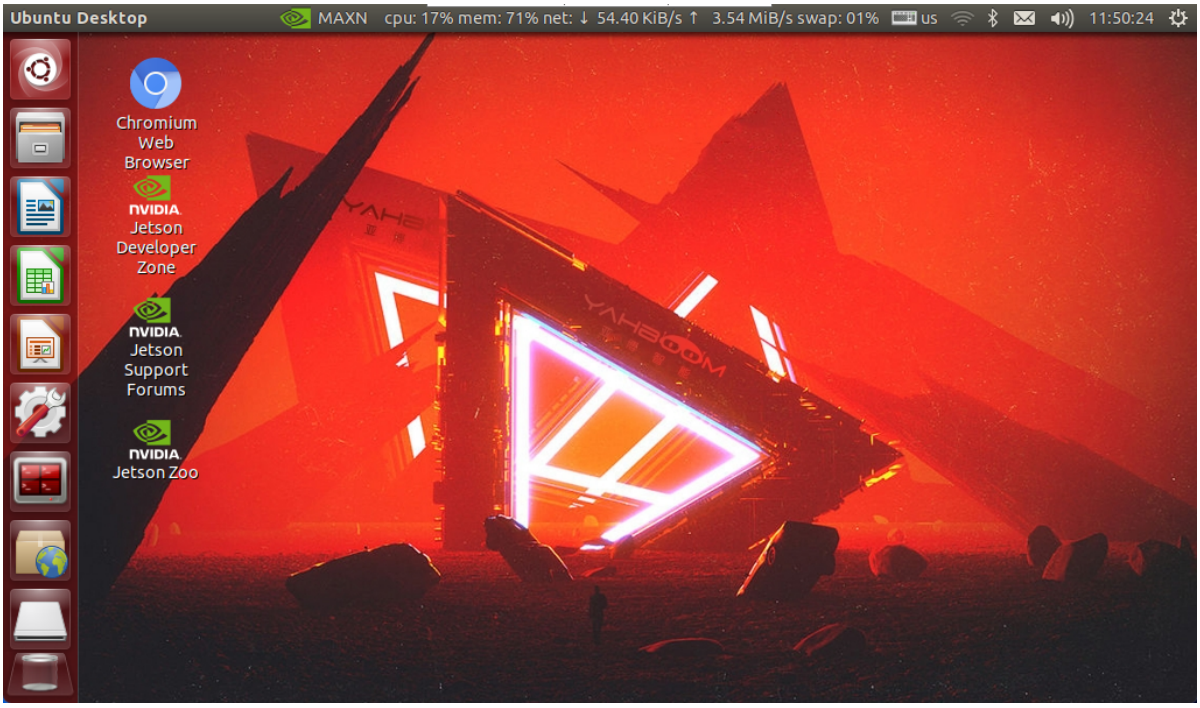
cover team computers.
he Search bar to connect directly.
0 device(s)



Remote success



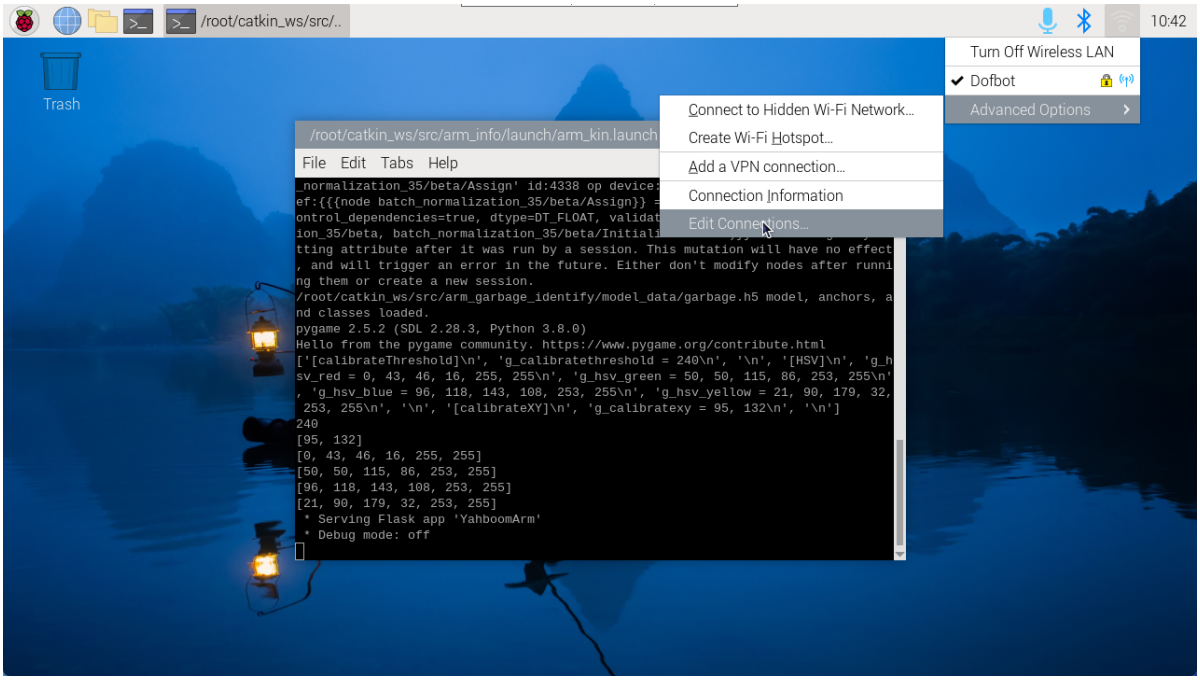
2. Network switching

raspberry pi

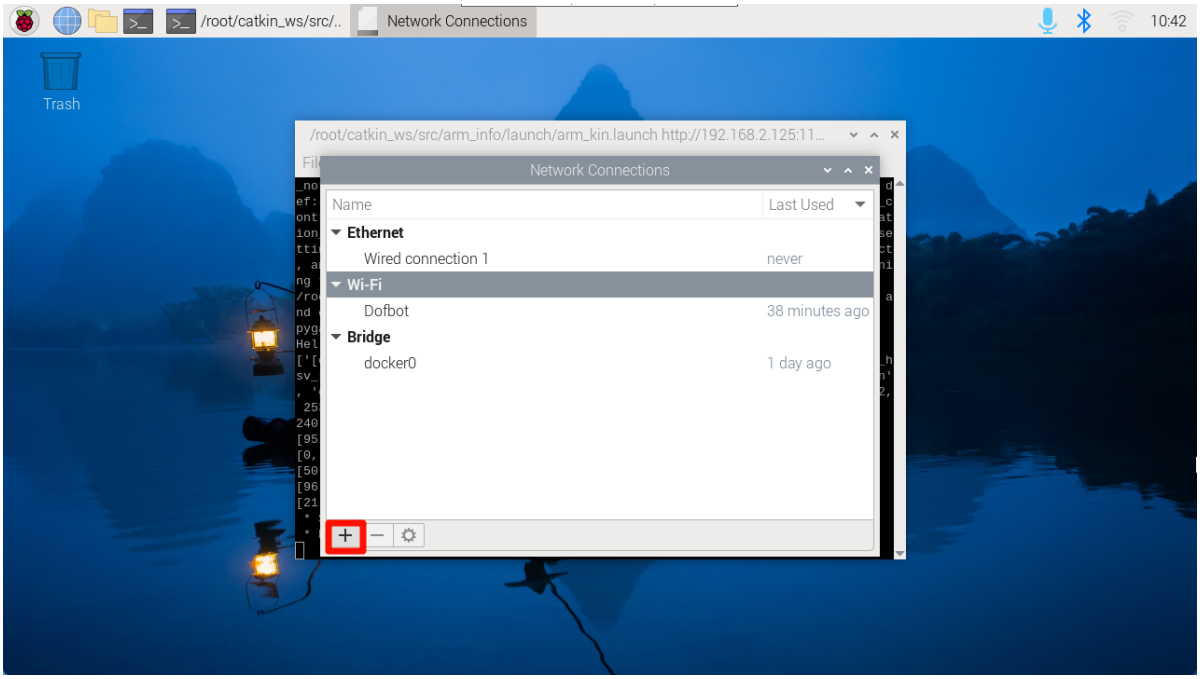
Network switching is performed based on the success of VNC remote.

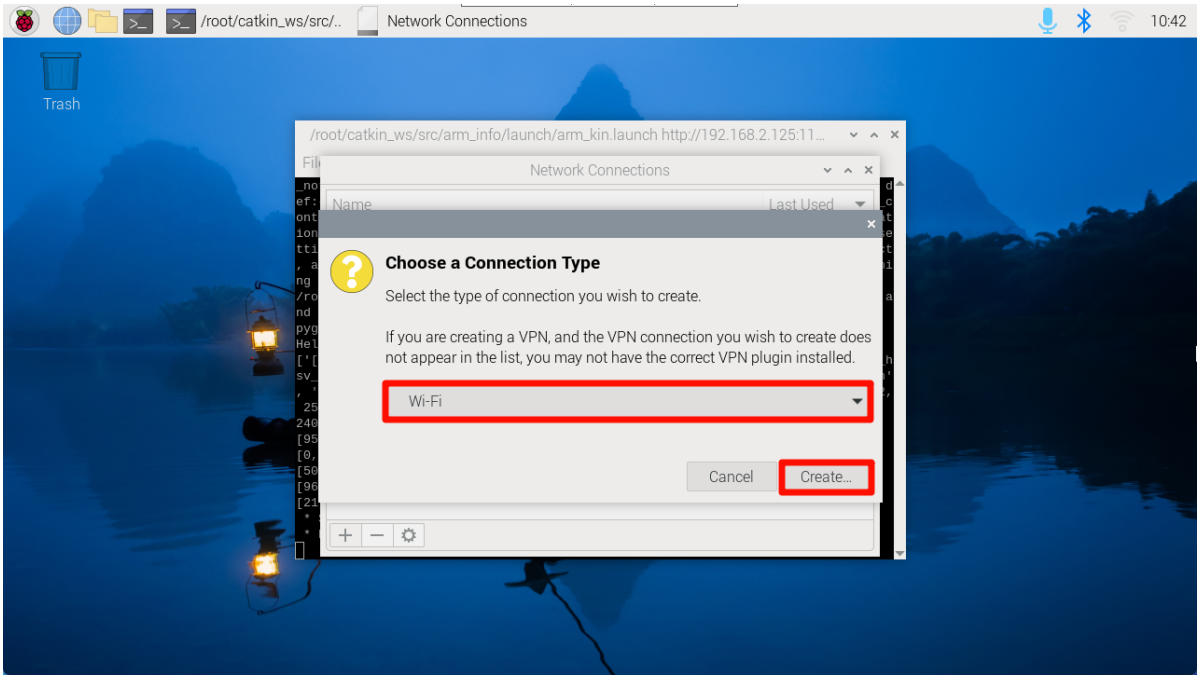
Create WiFi

Click "WiFi Icon" → "Advanced Options" → "Edit Connection"



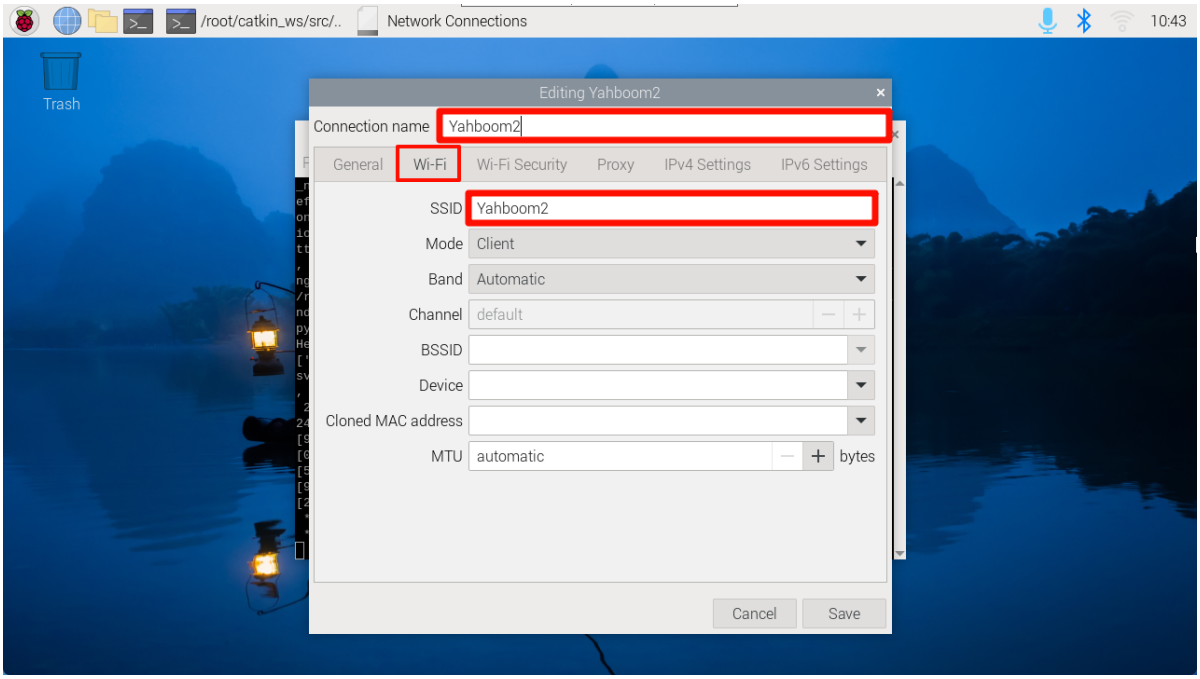
Select "WiFi" → "+" in the lower left corner

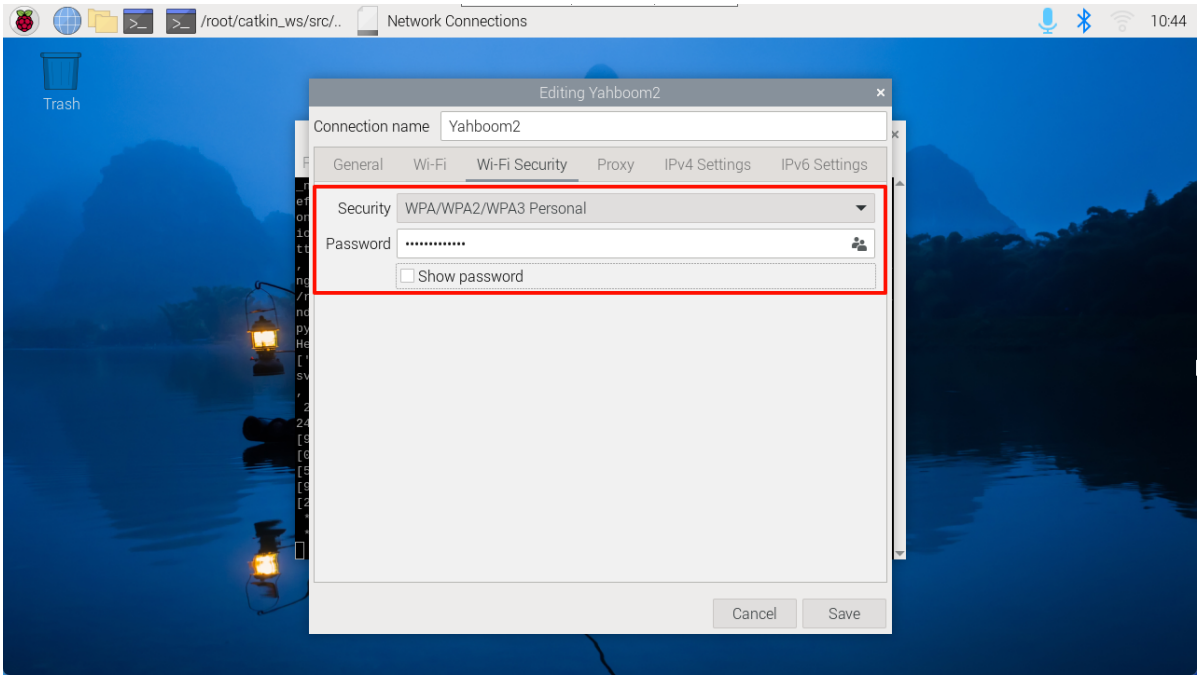




Fill in WiFi information

```
Demonstration of connected WiFi here: Yahboom2
```

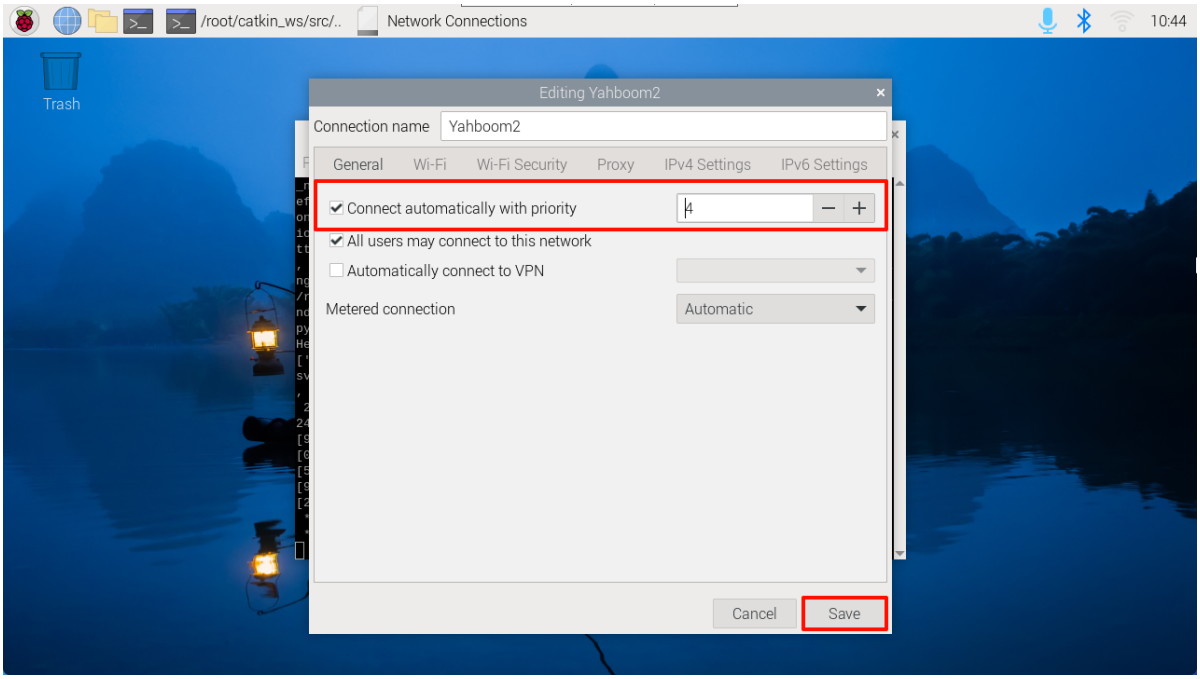




Set priority

The priority determines the network sequence that is preferred for system startup. The larger the number, the higher the priority. This method of startup is preferred!

```
The priority of Dofbot is 3, so if you want to automatically connect to WiFi when you turn it on, the priority of WiFi needs to be greater than 3.
```



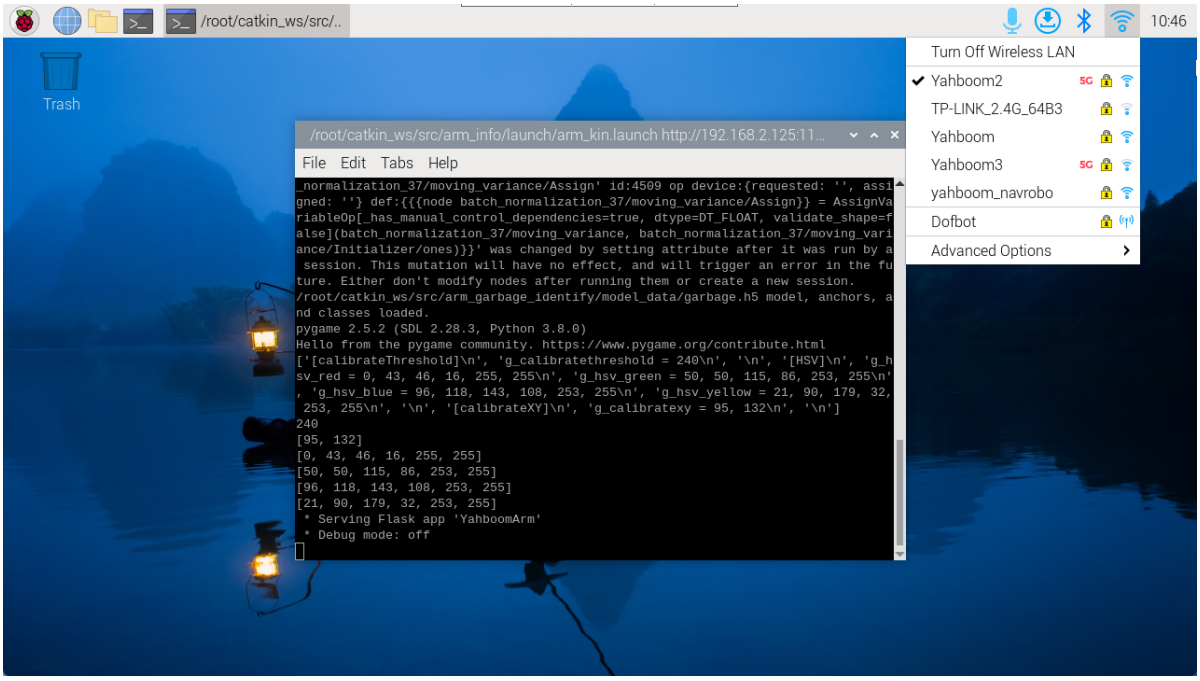
Restart to take effect

After the setting is completed, restart the Raspberry Pi and observe the IP address on the OLED display. If it changes, the connection is successful!

```
If the IP address displayed by the oled remains unchanged and the hotspot does not disappear, it means that the WiFi name or password entered previously is incorrect.
```

VNC connection

Connect according to the IP of the OLED display, no more demonstration here!

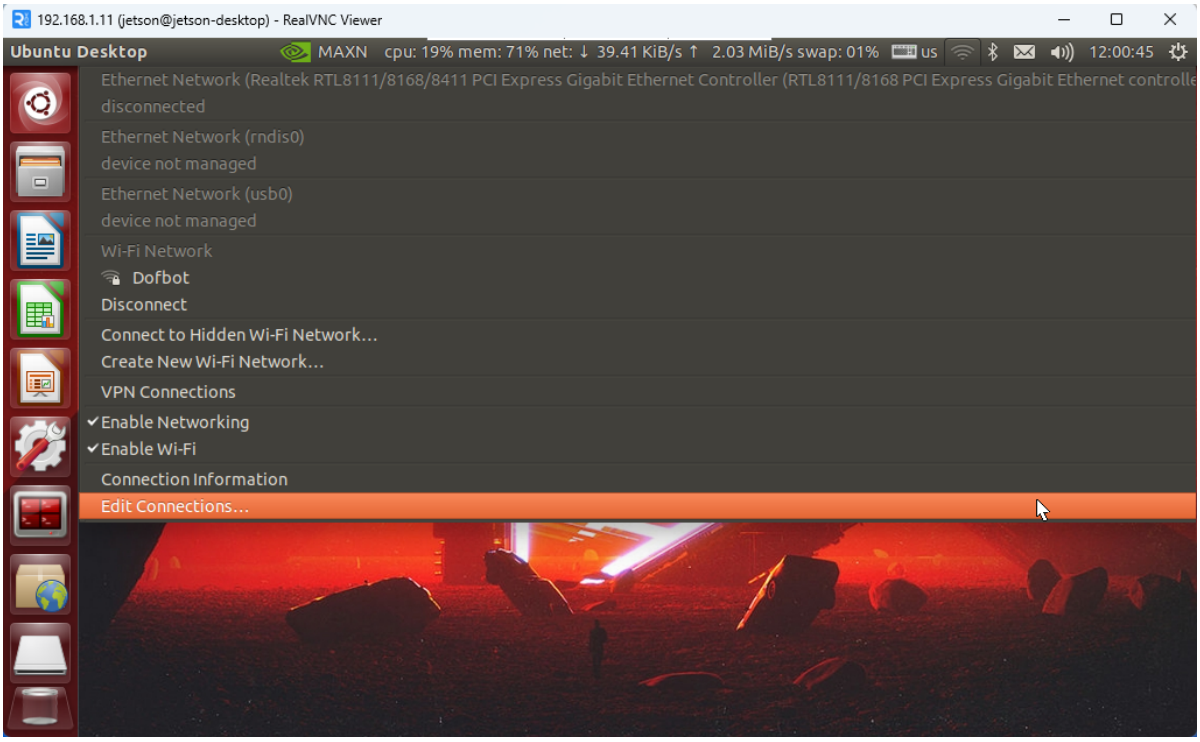


Jetson motherboard

Perform network switching based on the success of VNC remote.

Create WiFi

Click on "WiFi Icon" → "Edit Connection"



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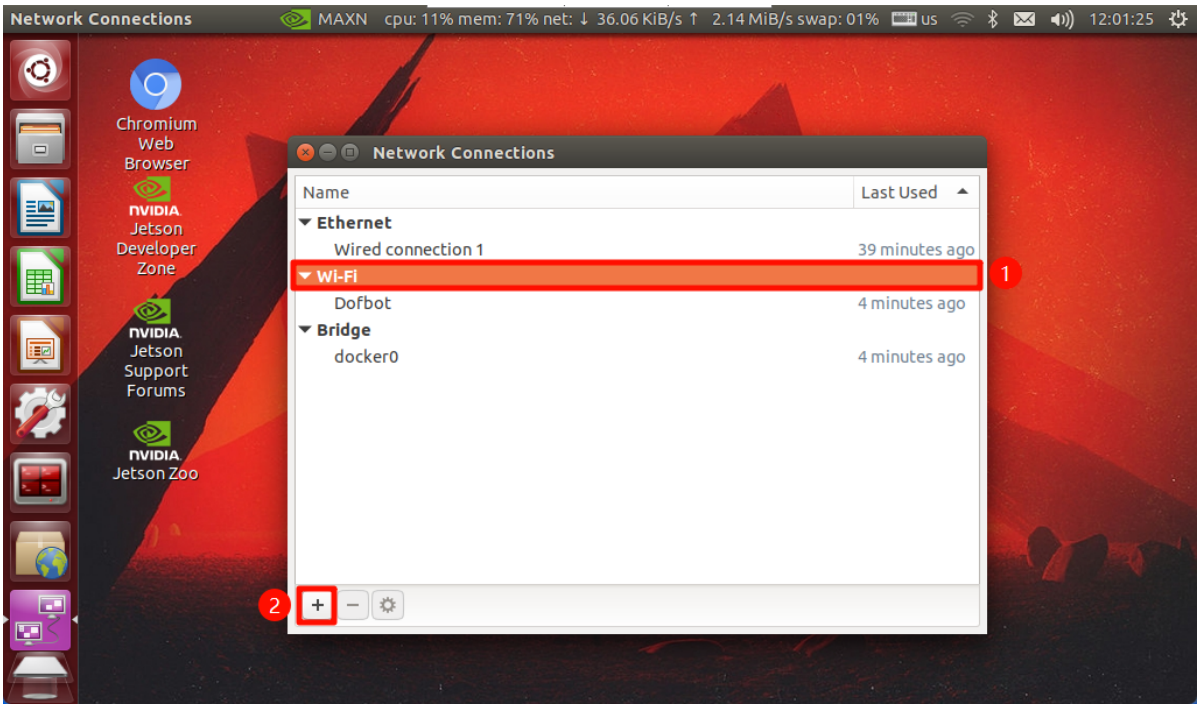

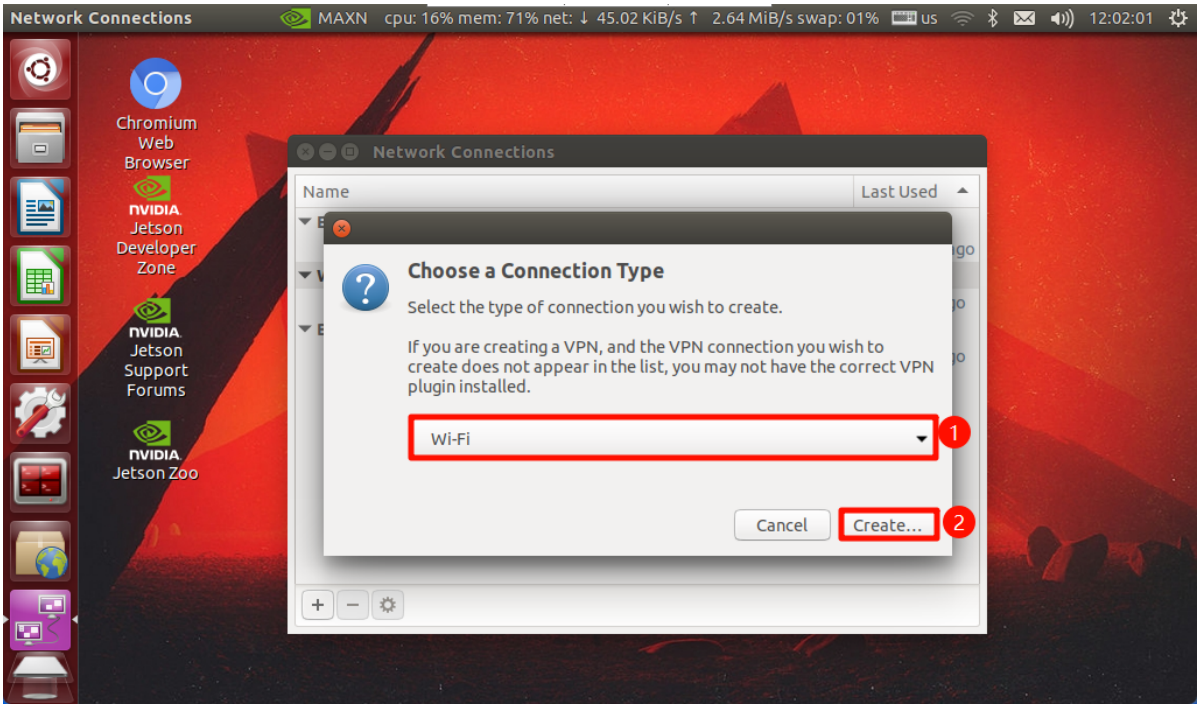

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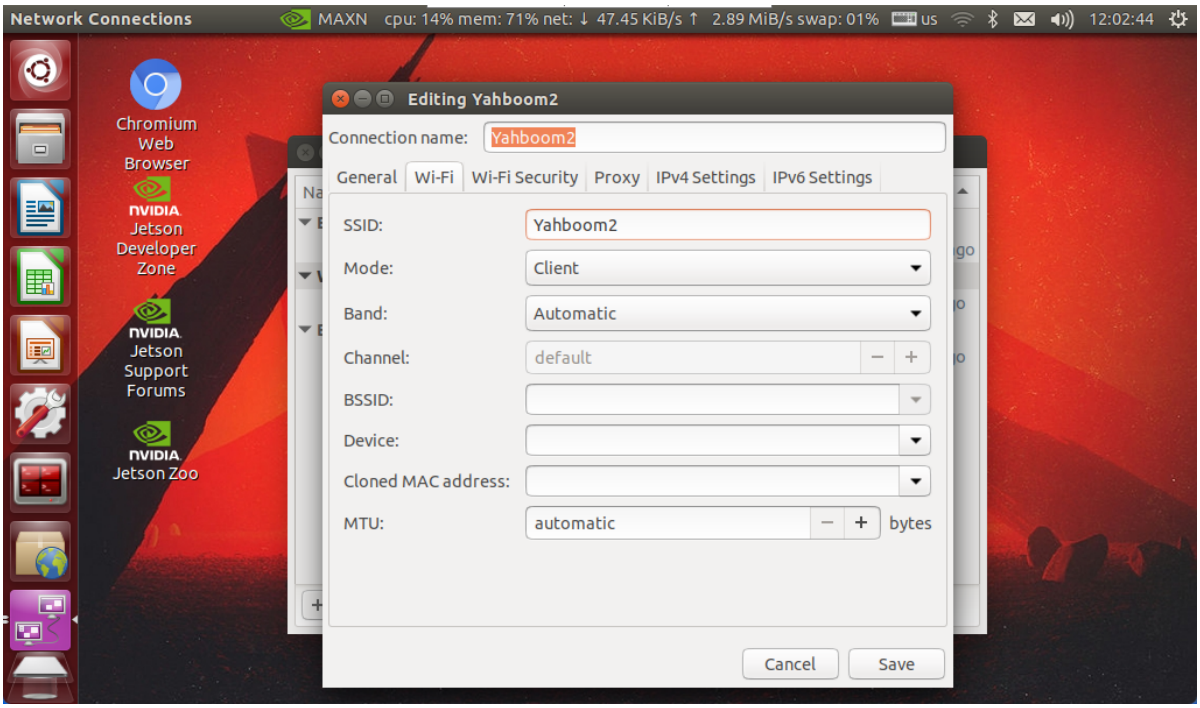

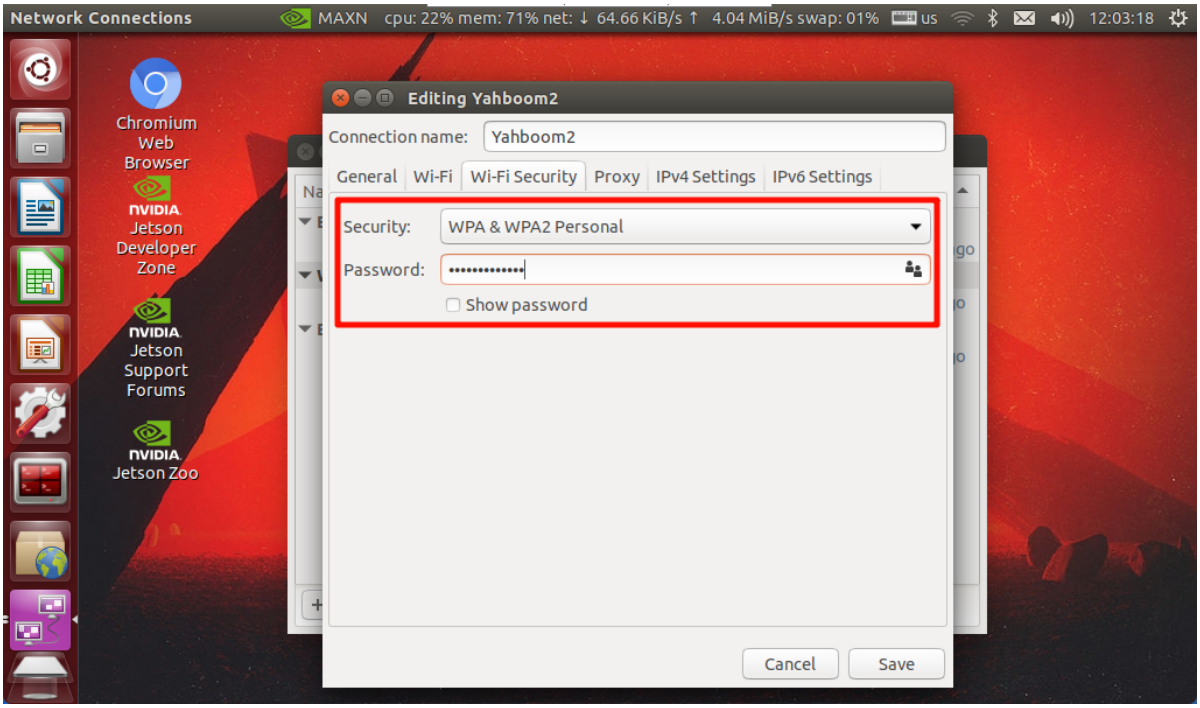

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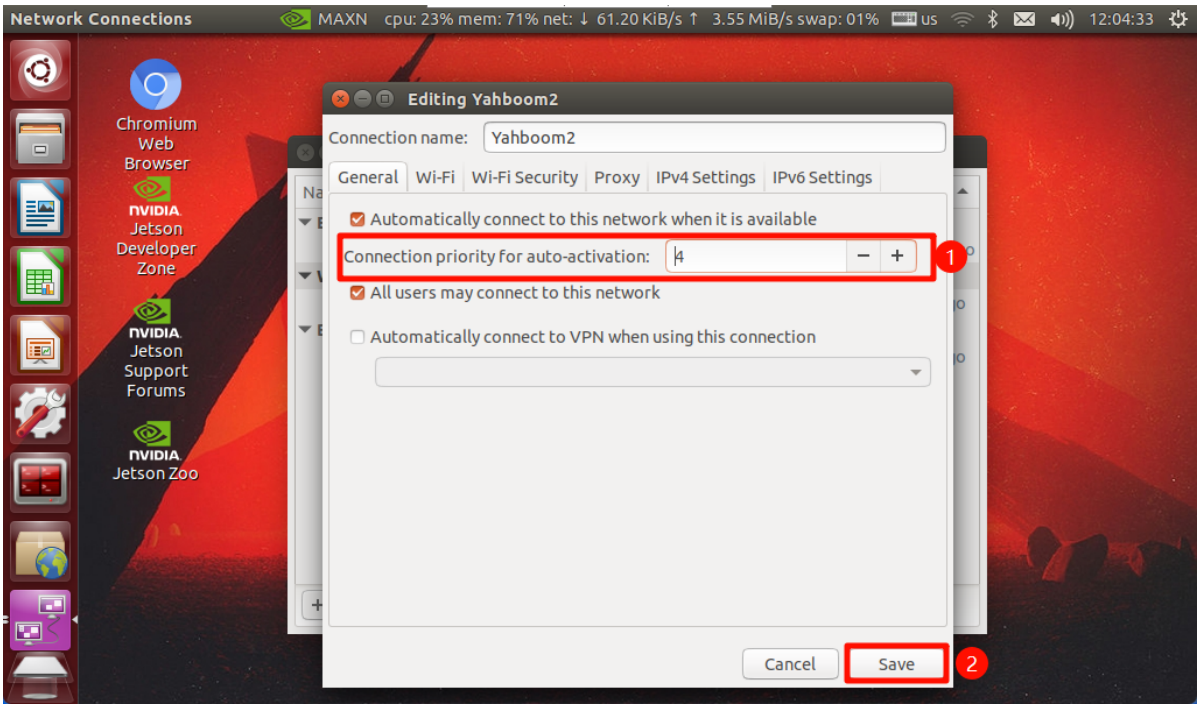

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