

Network configuration

Network configuration

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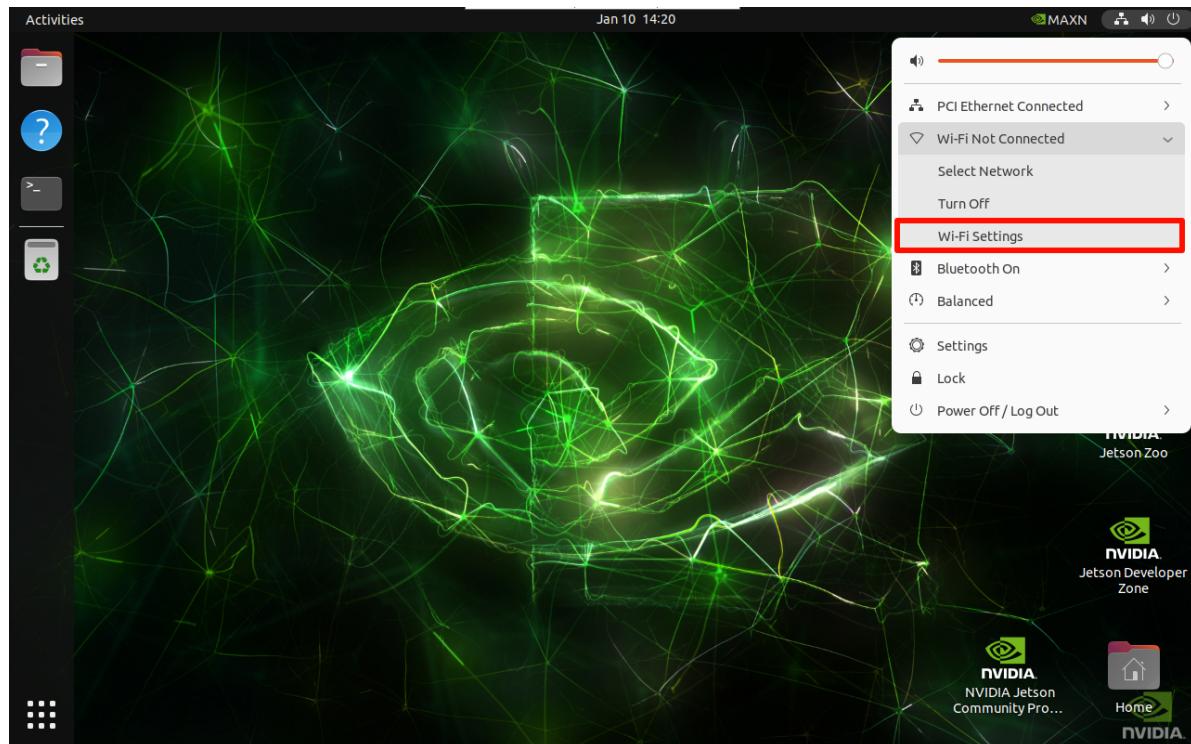
WiFi and hotspot modes require the use of a wireless network card. Before making the following settings, check whether the wireless network card and antenna are installed!

It is recommended to switch networks by connecting to the display screen. Once the network is switched to a new network, the system needs to re-enable network sharing for the new network before VNC remote

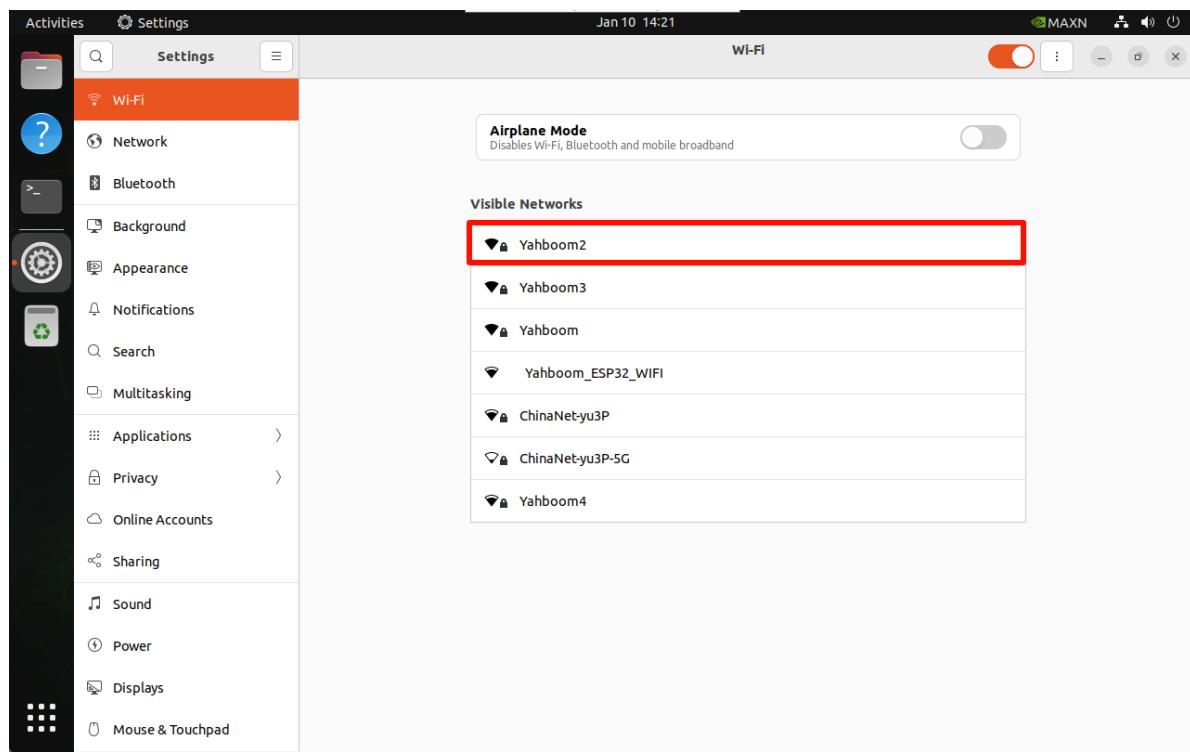
1. WIFI mode

1.1. Connect to WiFi

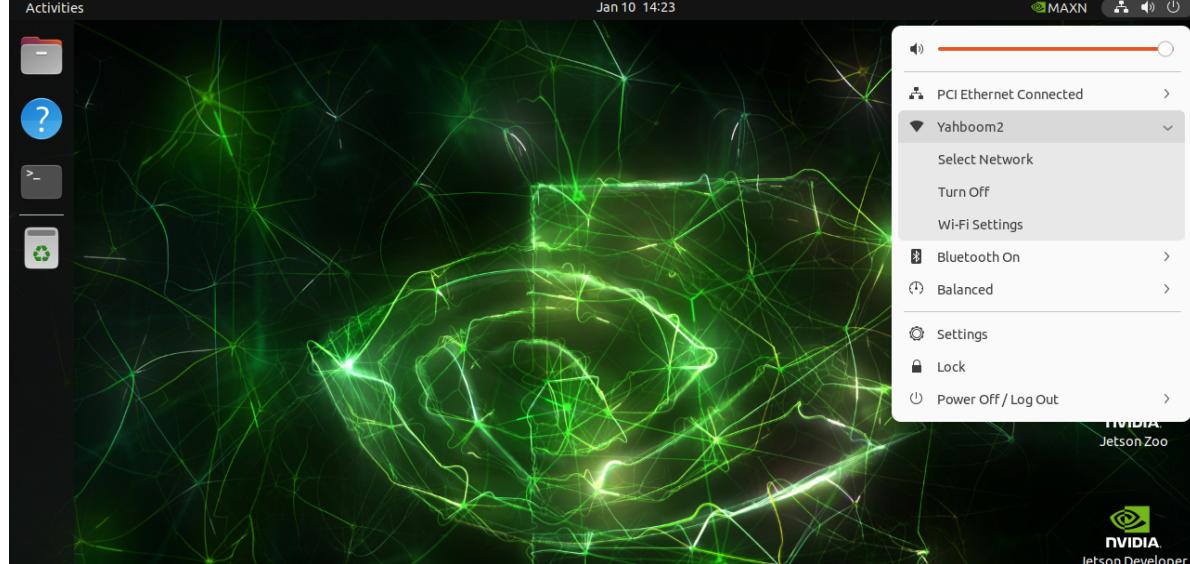
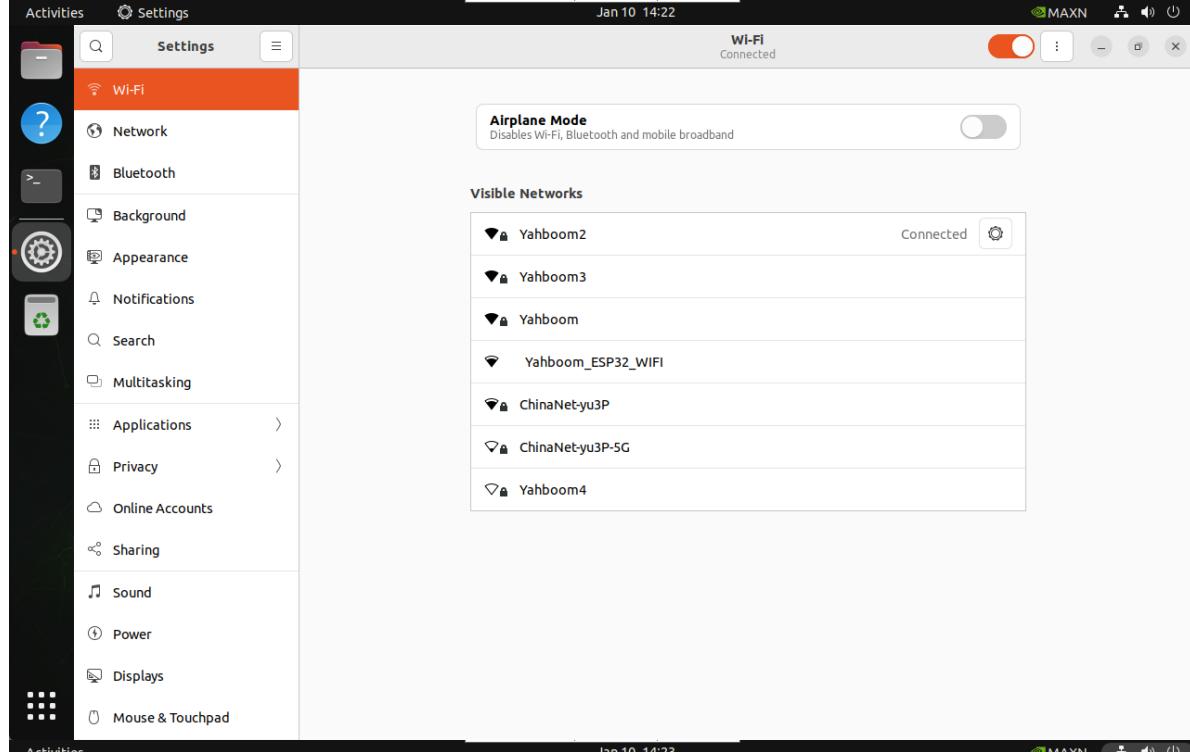
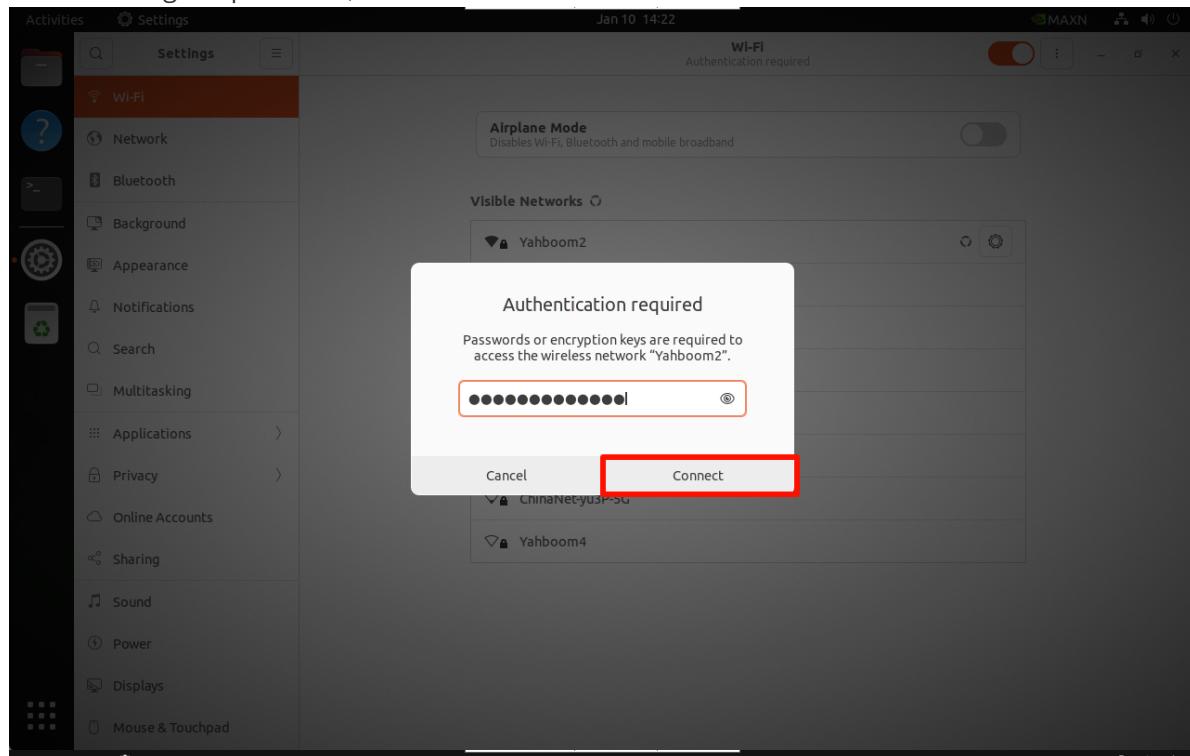
Select the menu option in the upper right corner of the system desktop → WiFi options → Wi-Fi Settings:



Select the WiFi you want to connect to: If the WiFi signal is very weak, check whether the antenna is not installed or the signal in the environment is poor



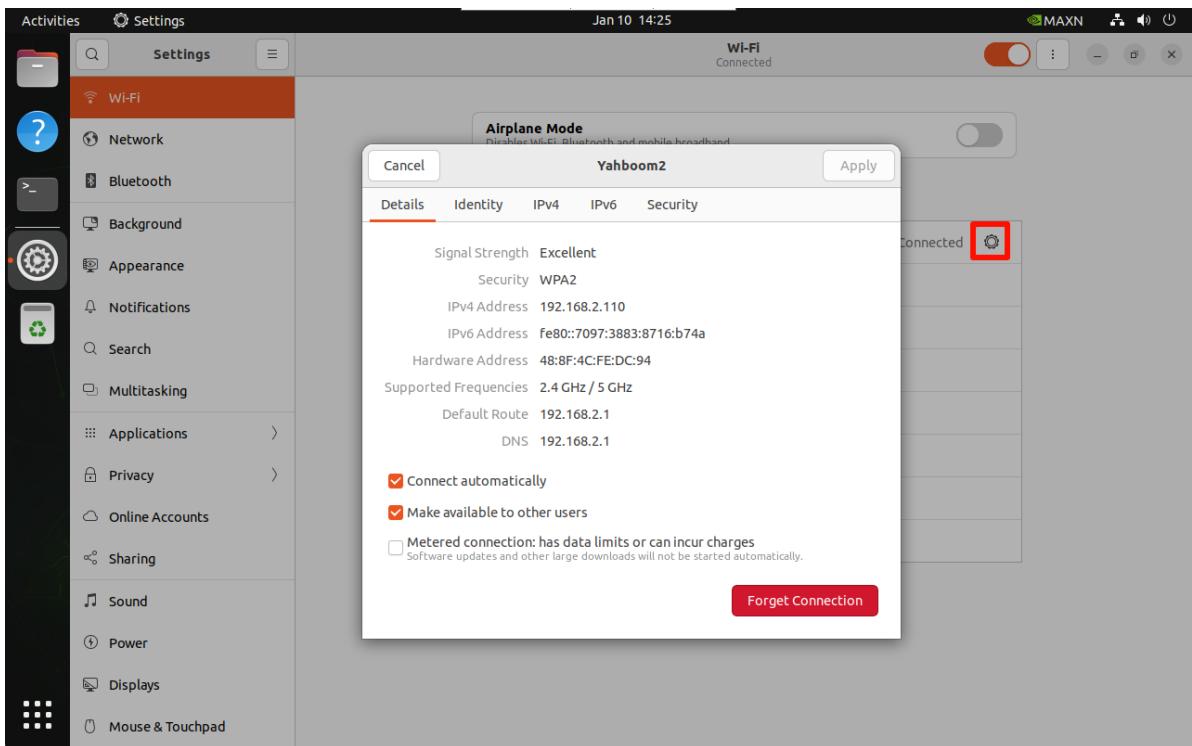
After entering the password, click Connect :





1.2. Check WiFi information

Click the settings icon of the connected WiFi:



The terminal can use the following command to view the IP addresses of all networks: `enP8p1s0` is the IP connected by the network cable, and `wlP1p1s0` is the IP connected by WiFi

`ifconfig`

```
Activities Terminal Jan 10 14:34 MAXN NVIDIA Jetson Support Forums L4T-README
jetson@yahboom:~$ ifconfig
docker0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    inet 172.17.0.1 netmask 255.255.0.0 broadcast 172.17.255.255
        ether 02:42:f5:55:b3:9a txqueuelen 0 (Ethernet)
        RX packets 0 bytes 0 (0.0 B)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 0 bytes 0 (0.0 B)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enP8p1s0 flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.2.114 netmask 255.255.255.0 broadcast 192.168.2.255
        inet6 fe80::9392:869d:e216:bbe2 prefixlen 64 scopeid 0x20<link>
            ether 48:b0:2d:eb:bc:40 txqueuelen 1000 (Ethernet)
            RX packets 643233 bytes 41792956 (41.7 MB)
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 2340952 bytes 3449011984 (3.4 GB)
            TX errors 0 dropped 0 overruns 0 carrier 0
            device interrupt 21 base 0x5000

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
        loop txqueuelen 1000 (Local Loopback)
        RX packets 837 bytes 200811 (200.8 KB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 837 bytes 200811 (200.8 KB)
        TX errors 0 dropped 0 overruns 0 carrier 0

usb0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether 1e:43:18:c8:56:d5 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

usb1: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether 1e:43:18:c8:56:d7 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlP1p1s0 flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.2.110 netmask 255.255.255.0 broadcast 192.168.2.255
        inet6 fe80::7097:3883:8716:b74a prefixlen 64 scopeid 0x20<link>
            ether 48:8f:4c:fe:dc:94 txqueuelen 1000 (Ethernet)
            RX packets 40590 bytes 9598361 (9.5 MB)
            RX errors 0 dropped 174 overruns 0 frame 0
            TX packets 252549 bytes 382781895 (382.7 MB)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

jetson@yahboom: $
```

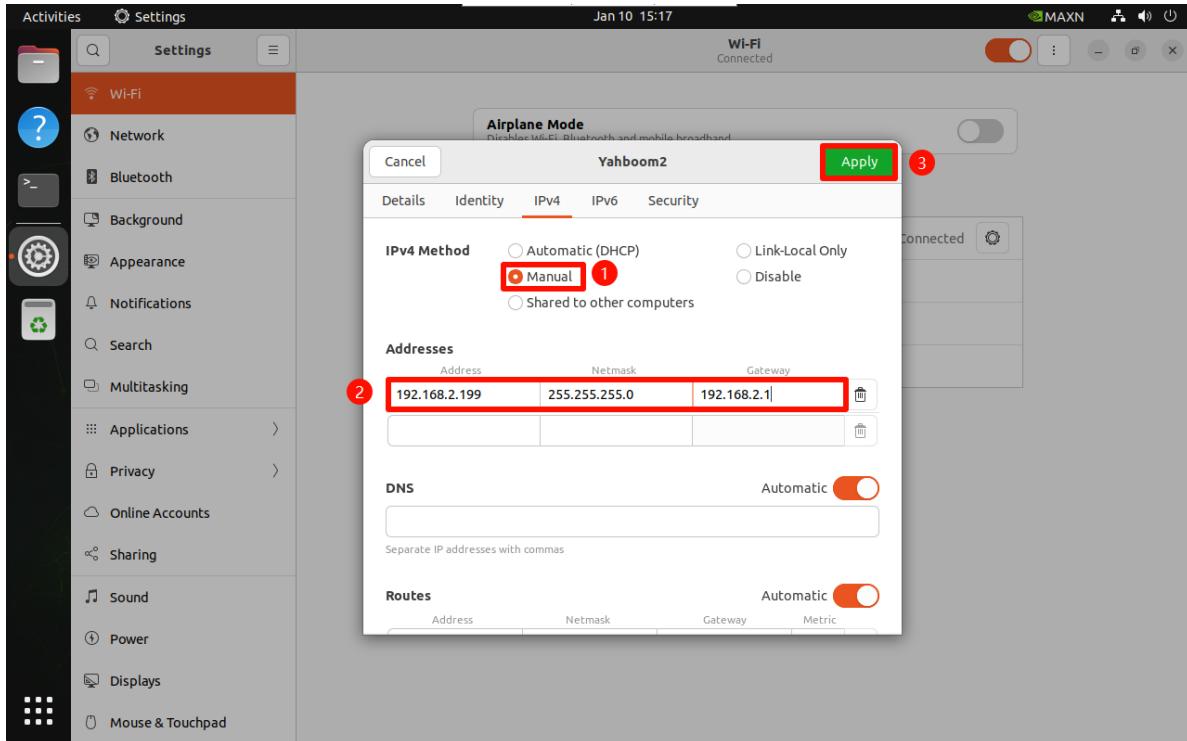
1.3. Set static IP

Click the setting icon of the connected WiFi to modify the IPv4 option:

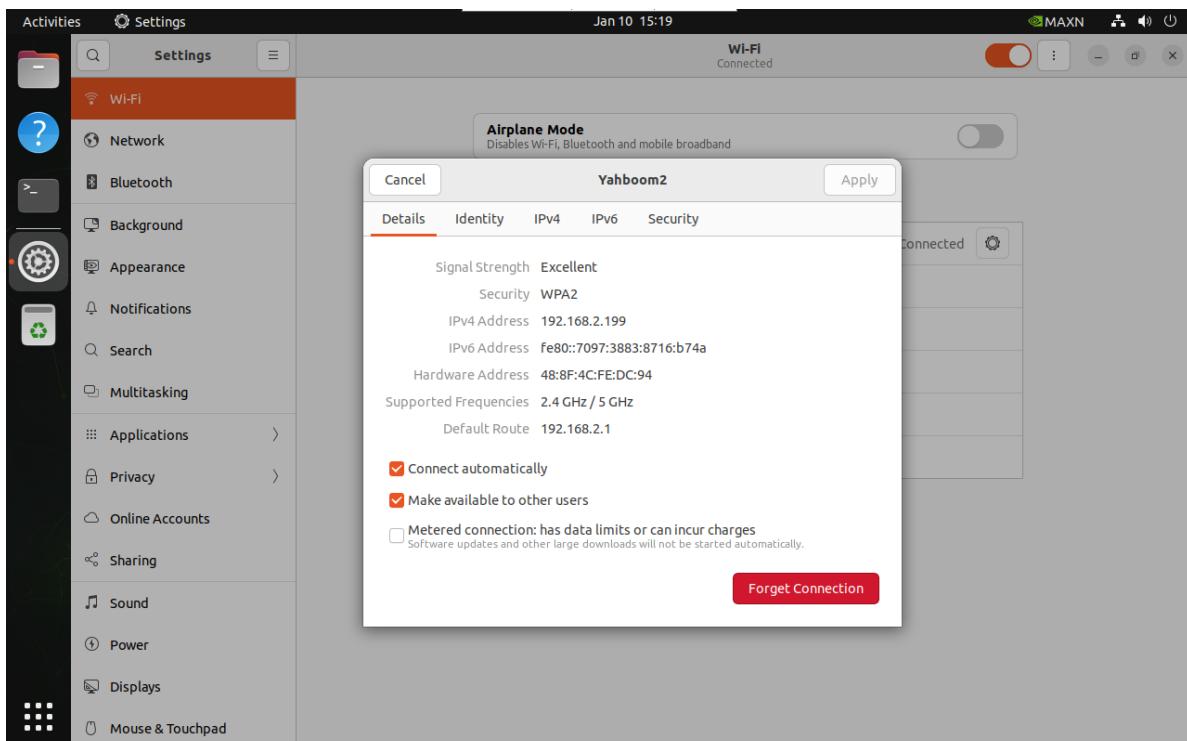
Address: Fill in the required fixed IP address, which needs to be in the assignable IP address range

Netmask: Fill in 255.255.255.0

Gateway: Fill in the WiFi default gateway address



After completion, reconnect WiFi to take effect:



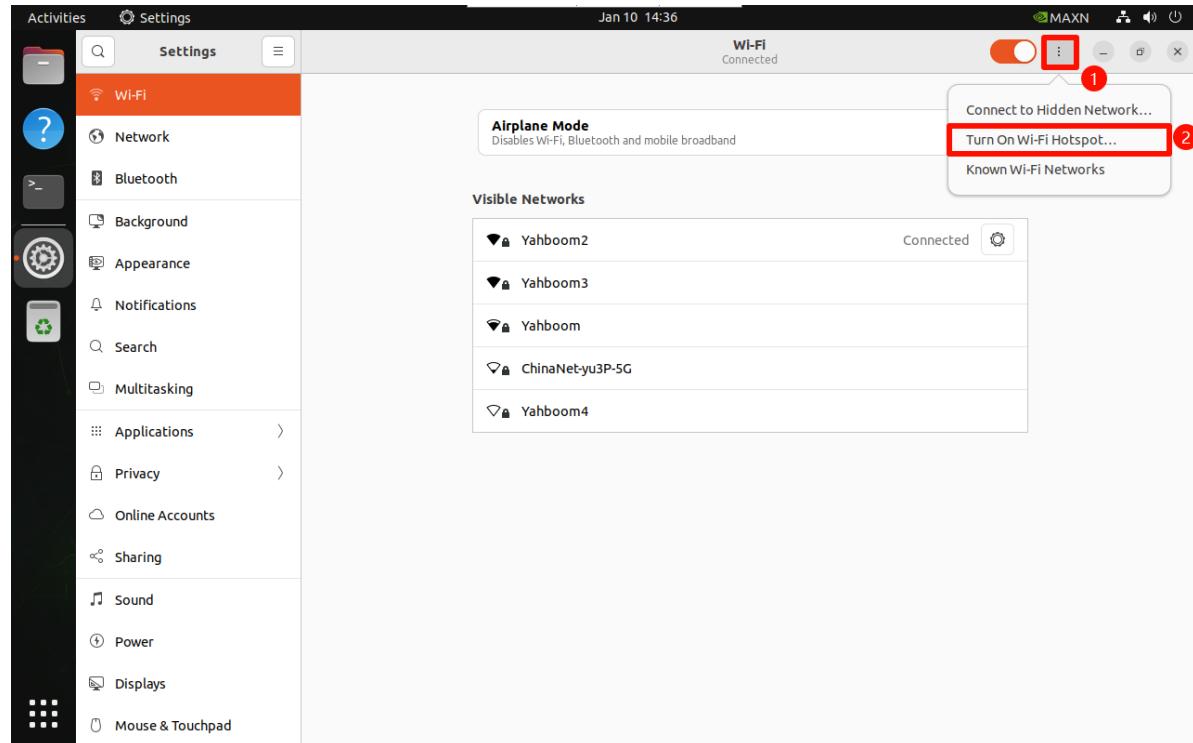
2. Hotspot mode

The wireless network card needs to support hotspot to enable hotspot mode.

Configure the hotspot mode on the desktop system. The hotspot will be automatically turned off after the system restarts. Users who need it can find the tutorial on how to start the hotspot on Ubuntu 22.04

2.1. Create a hotspot

Enter WiFi settings and select `Turn On Wi-Fi Hotspot...`

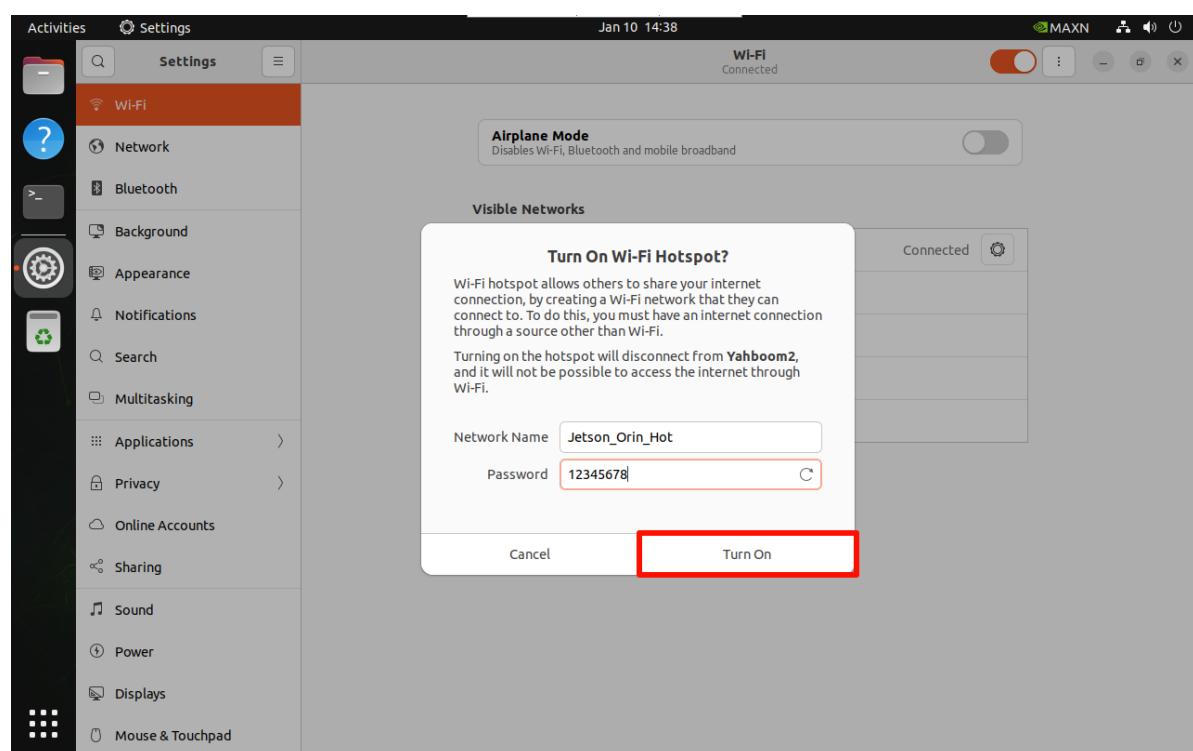


2.2. Hotspot information

Hotspot name: Jetson_Orin_Hot (customizable)

Hotspot password: 12345678 (customizable)

Hotspot mode default IP: 10.42.0.1



Activities Settings Jan 10 14:59

MAXN

Wi-Fi

Wi-Fi

Network

Bluetooth

Background

Appearance

Notifications

Search

Multitasking

Applications

Privacy

Online Accounts

Sharing

Sound

Power

Displays

Mouse & Touchpad

Airplane Mode
Disables Wi-Fi, Bluetooth and mobile broadband

QR code for Wi-Fi Hotspot

Wi-Fi Hotspot Active
Mobile devices can scan the QR code to connect.

Turn Off Hotspot...

Network Name	Jetson_Orin_Hot
Security type	WPA
Password	12345678