Remote Access

We often use SSH and VNC tools to remotely control the Raspberry Pi system.

1. Preliminary preparation

Note: SSH and VNC are already enabled in the car image, so you can skip the preliminary preparation content
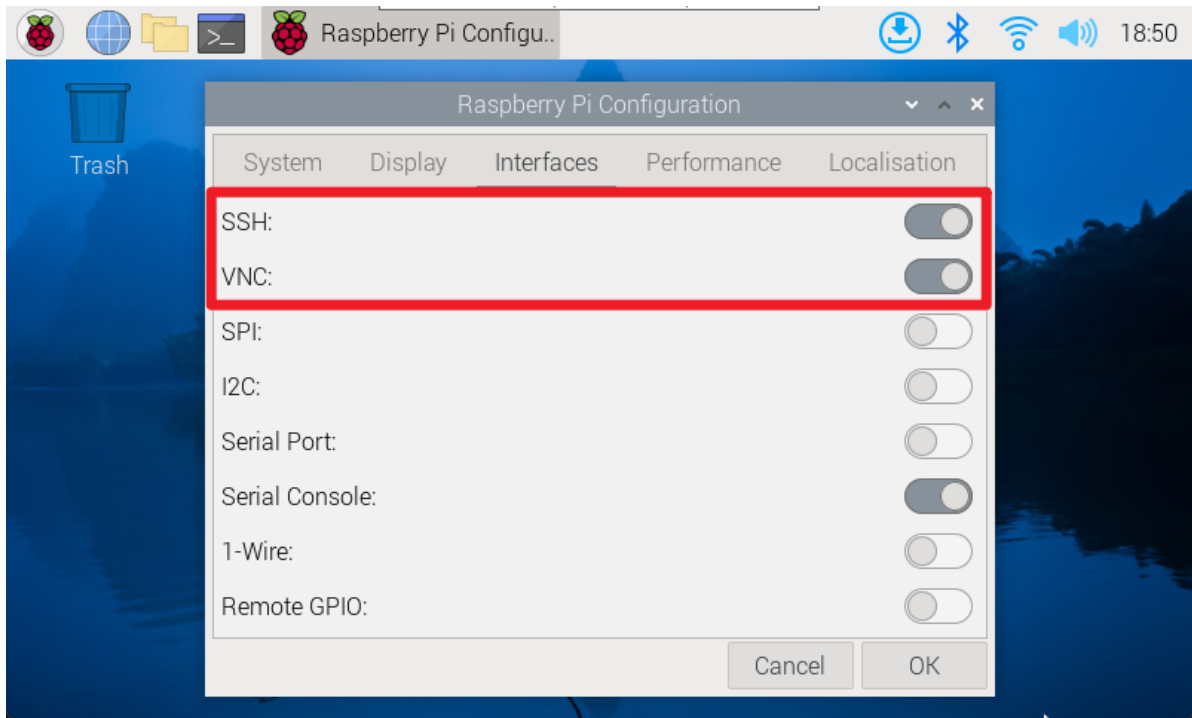
Before performing SSH and VNC remote login, you need to enable SSH and VNC functions in the Raspberry Pi system settings or use the raspi-config tool.

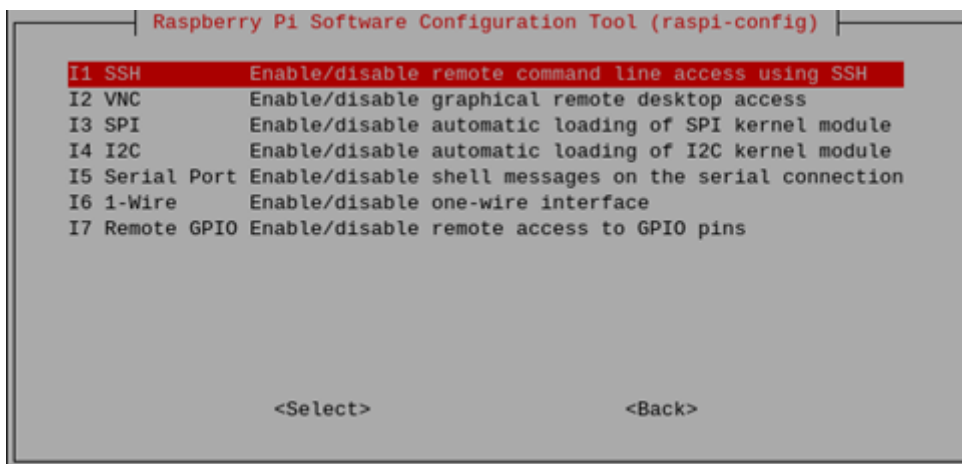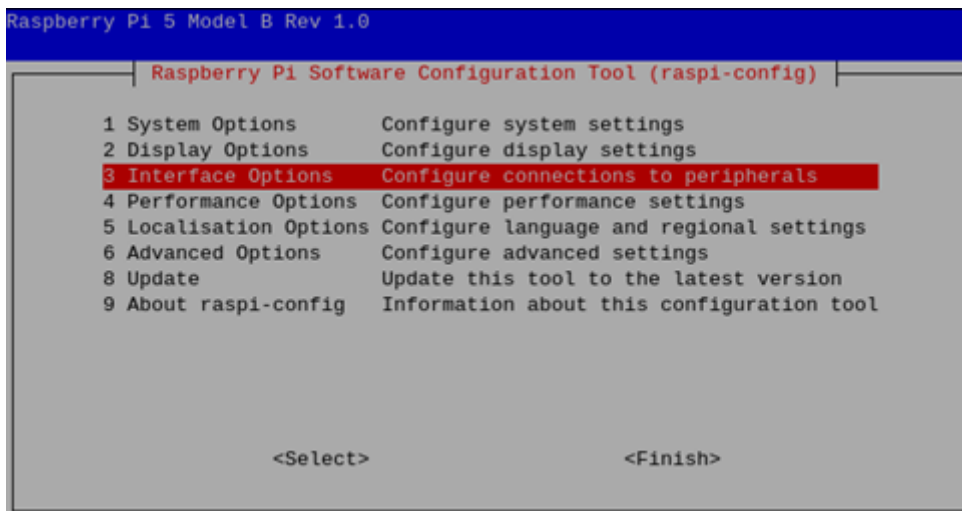## 1.1. Enable SSH and VNC

Graphical interface

Enable SSH and VNC: applications menu → Preferences → Raspberry Pi Configuration
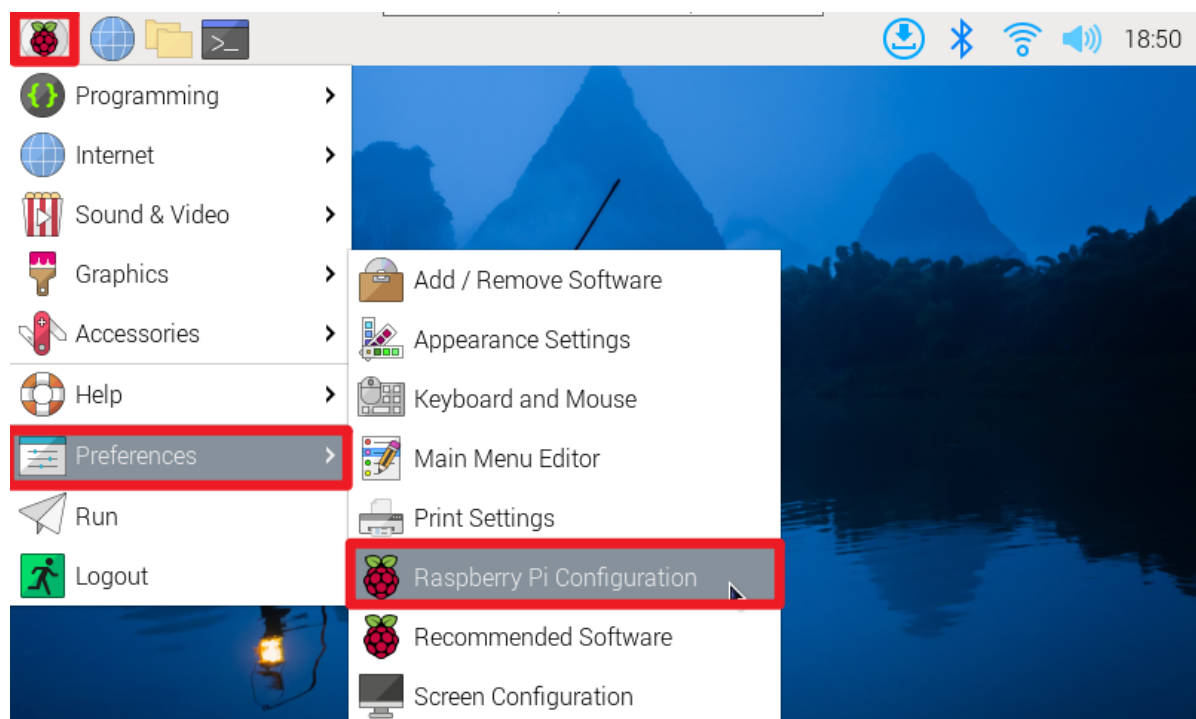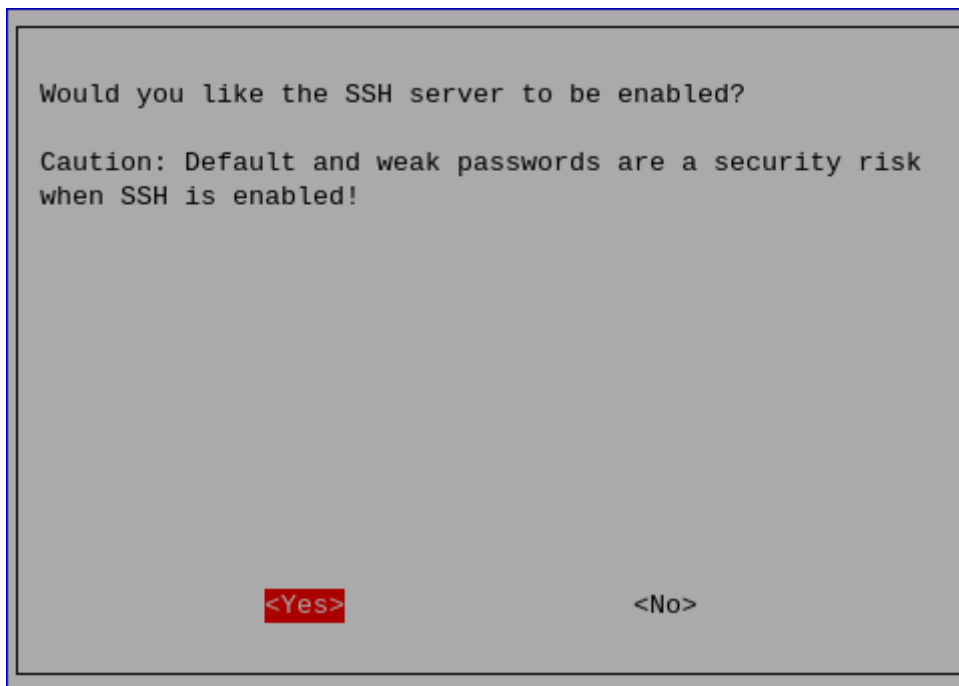
Command line

Use raspi-config tool to enable SSH and VNC functions: Interface Options → SSH/VNC: enable

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Would you like the SSH server to be enabled?

Caution: Default and weak passwords are a security risk
when SSH is enabled!




                    <Yes>                      <No>
```
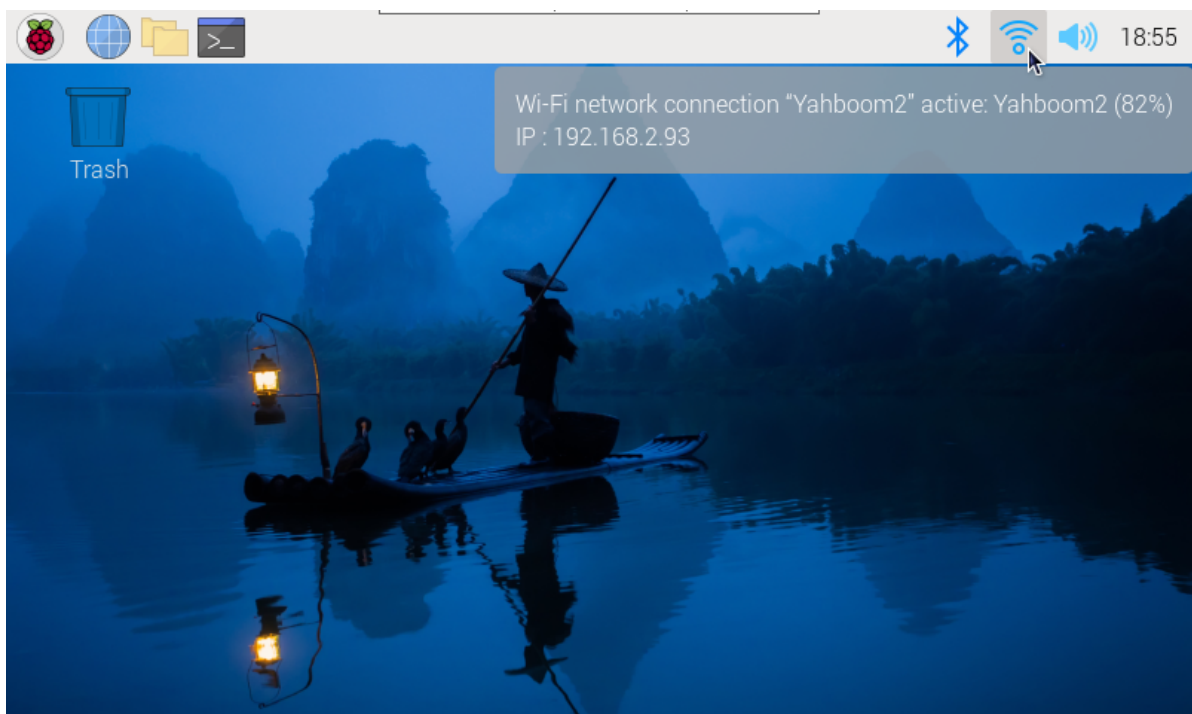
> The steps to enable the VNC function are the same, just follow the above steps!
> Note: If the VNC service fails to start, check whether the system has been
> updated; update the software and restart the system before re-enabling the VNC
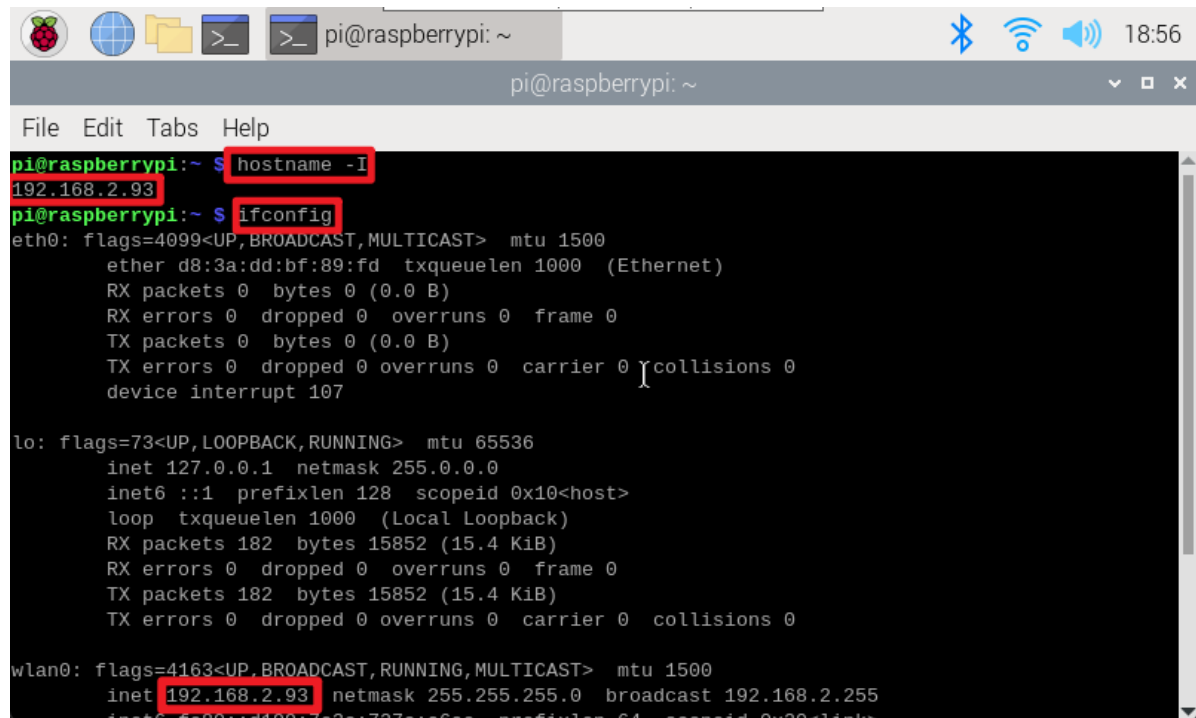> service.

1.2. Get IP

After enabling SSH and VNC functions, you can remotely control the Raspberry Pi according to its IP!

Graphical interface

After the system is connected to WiFi, hover the mouse over the WiFi icon to see the corresponding IP address.

Use the command to view the IP address: hostname -I or ifconfig

2. SSH remote control

After obtaining the IP address of the Raspberry Pi motherboard, you can log in remotely through SSH in the terminal according to the username and password of the Raspberry Pi system.
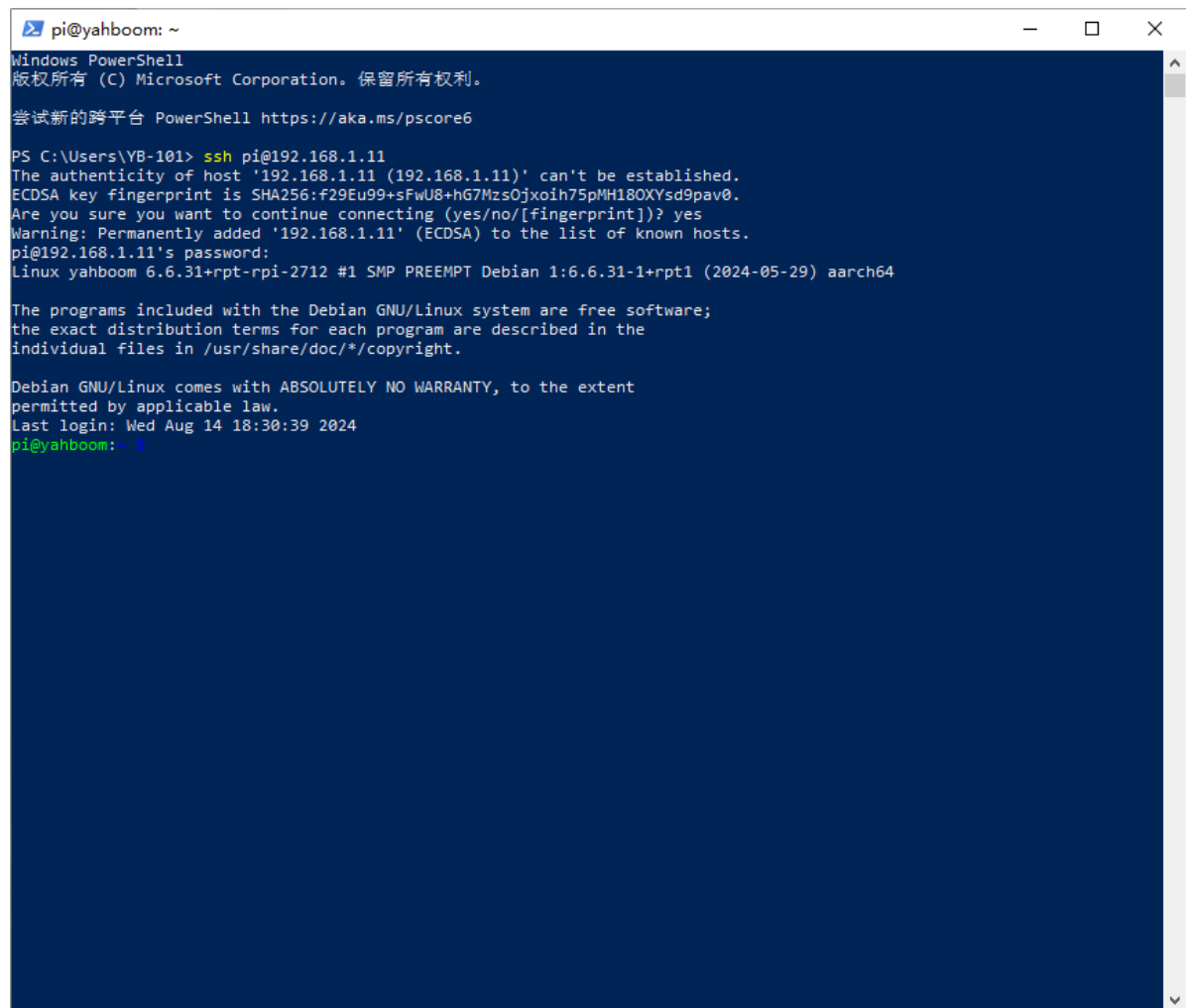
Take the car hotspot as an example, password: 12345678

SSH remote login command: ssh username@IP address

The car's username is pi, the password is yahboom, and the hotspot IP address is 192.168.1.11
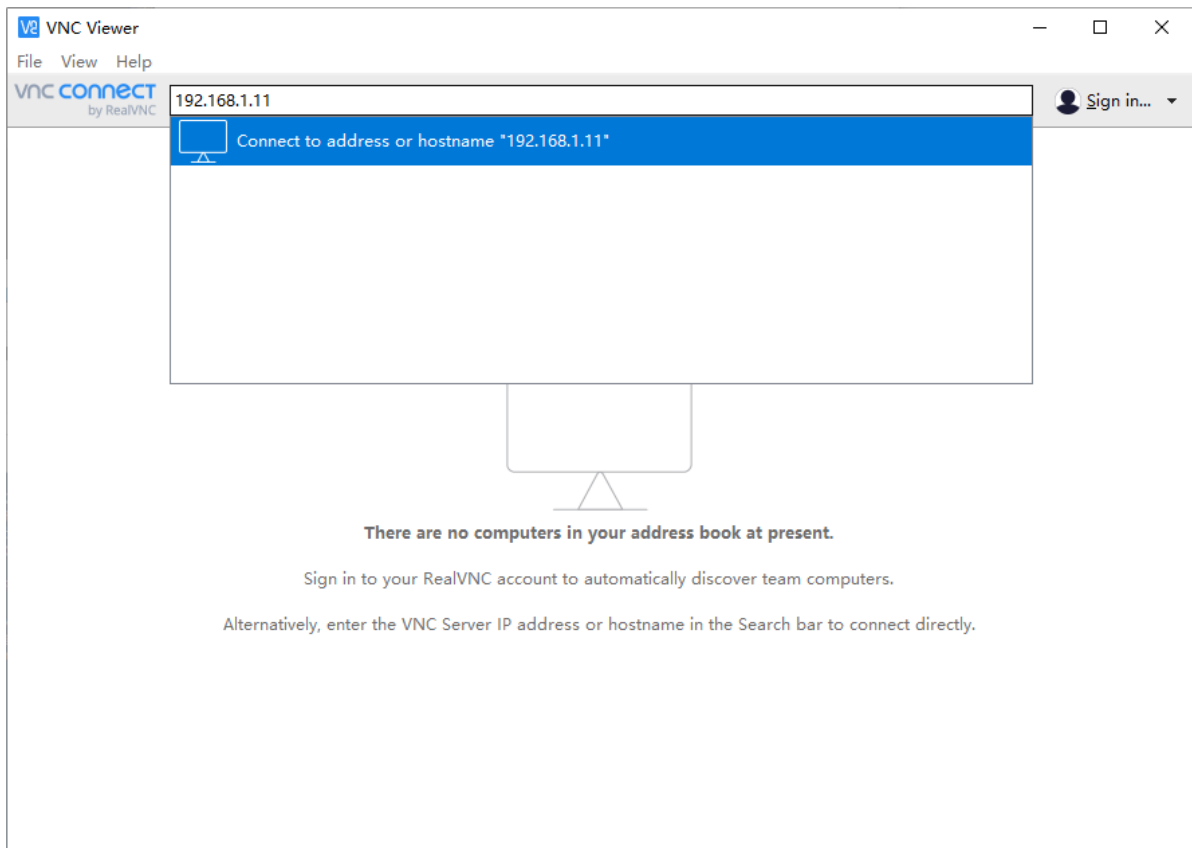
```
ssh pi@192.168.1.11
```
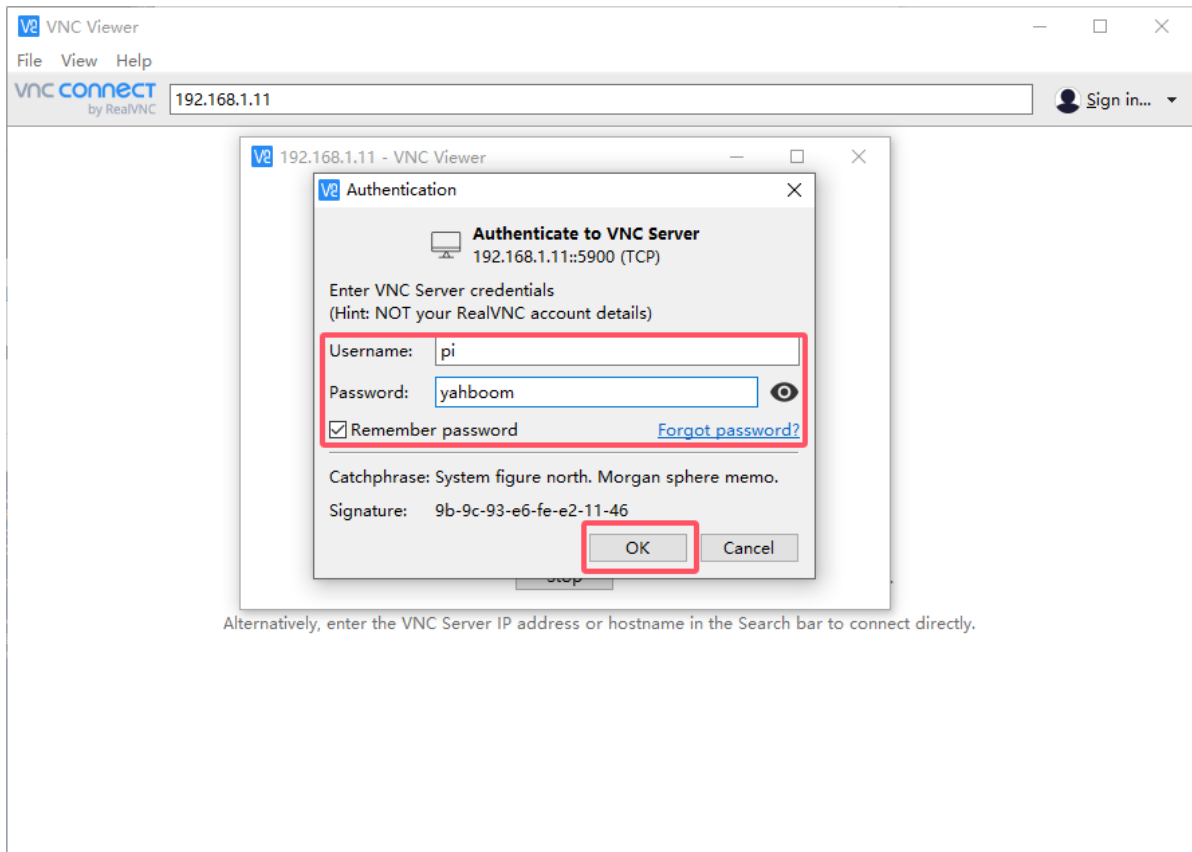

3. VNC remote login

After obtaining the Raspberry Pi motherboard IP address, you can use the RealVNC Viewer software for remote login.

Take the example of connecting to the car hotspot, password: 12345678

The user name for car login is pi, the password is yahboom, and the IP address of the hotspot is 192.168.1.11

After successful remote login, the Raspberry Pi system desktop will be displayed!