4. Voice control Robot dog movement

Quick use

1. DOGZILLA POWER UP

First of all, we switch on the switch power of the robot dog and start the robot dog

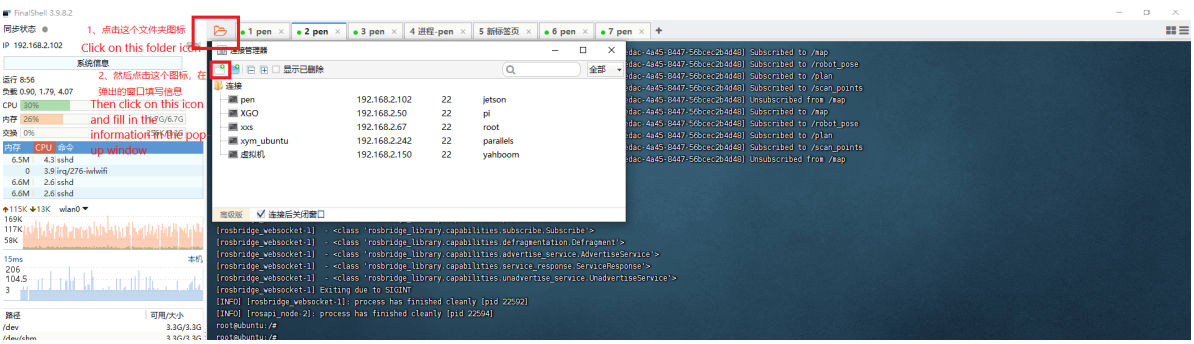
After startup, we can view the IP address on the robot dog's small screen.

2. Open shell to connect to DOGZILLA

Then use the ssh terminal to connect to robot dog.

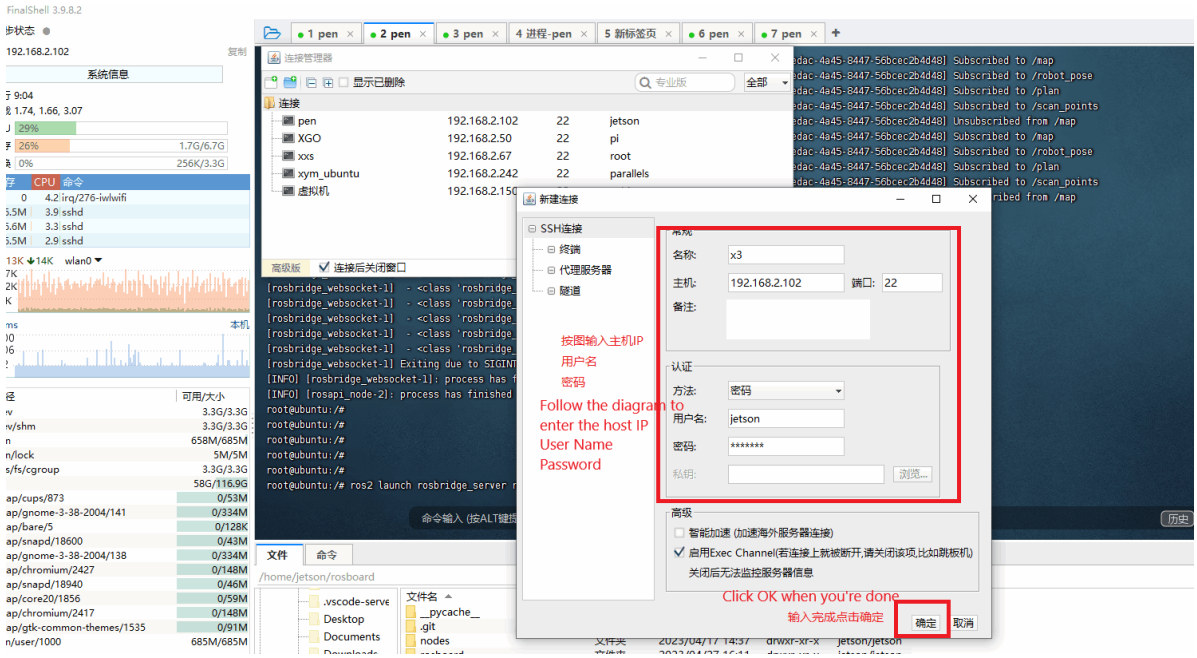
Note: At the time of writing this tutorial, the IP address used is 192.168.2.102 and the username is pi and the password is yahboom, so the actual IP address will prevail.

Open the shell utility, here I use FinalShell, enter the username, password, port, connection name and other information.

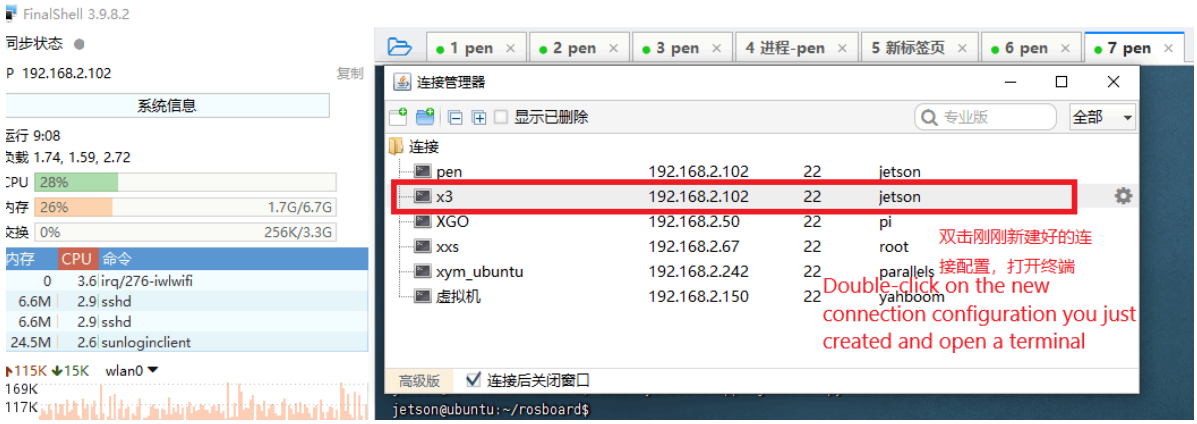


Select ssh connection to create a new ssh connection

Here username fill in pi, password fill in yahboom, ip address fill in the real robot dog's IP address.



Here select the new ssh connection you just created.



3. Starting the DOGZILLA chassis

Start the chassis task by entering the command in the terminal.

```
sudo systemctl restart YahboomStart.service
```

```
pi@yahboom:~$
pi@yahboom:~$
pi@yahboom:~$
pi@yahboom:~$
pi@yahboom:~$ sudo systemctl restart YahboomStart.service
```

4. Start the programme for voice-controlled robot dog movement

Enter the following command in the terminal

```
cd ~/cartographer_ws2
```

```
source install/setup.bash
```

```
ros2 run voice_xgo_ctrl_run voice_xgo_ctrl_run
```

```
pi@yahboom:~$ cd cartographer_ws2/
pi@yahboom:~/cartographer_ws2$ source install/setup.bash
pi@yahboom:~/cartographer_ws2$
pi@yahboom:~/cartographer_ws2$ ros2 run voice_xgo_ctrl_run voice_xgo_ctrl_action
Speech Serial Opened! Baudrate=115200
```

Then say to the robot dog, "Hi,Yahboom".

The robot dog will respond with "Hi, I am here".

Then say to the robot dog: "Go ahead" or "Back".

Voice commands: Go ahead, Back, Turn left, Turn right. Once robot dog recognizes voice commands and will do the corresponding action.

Note: After the robot dog wakes up, it doesn't need to wake up again within 20 seconds.