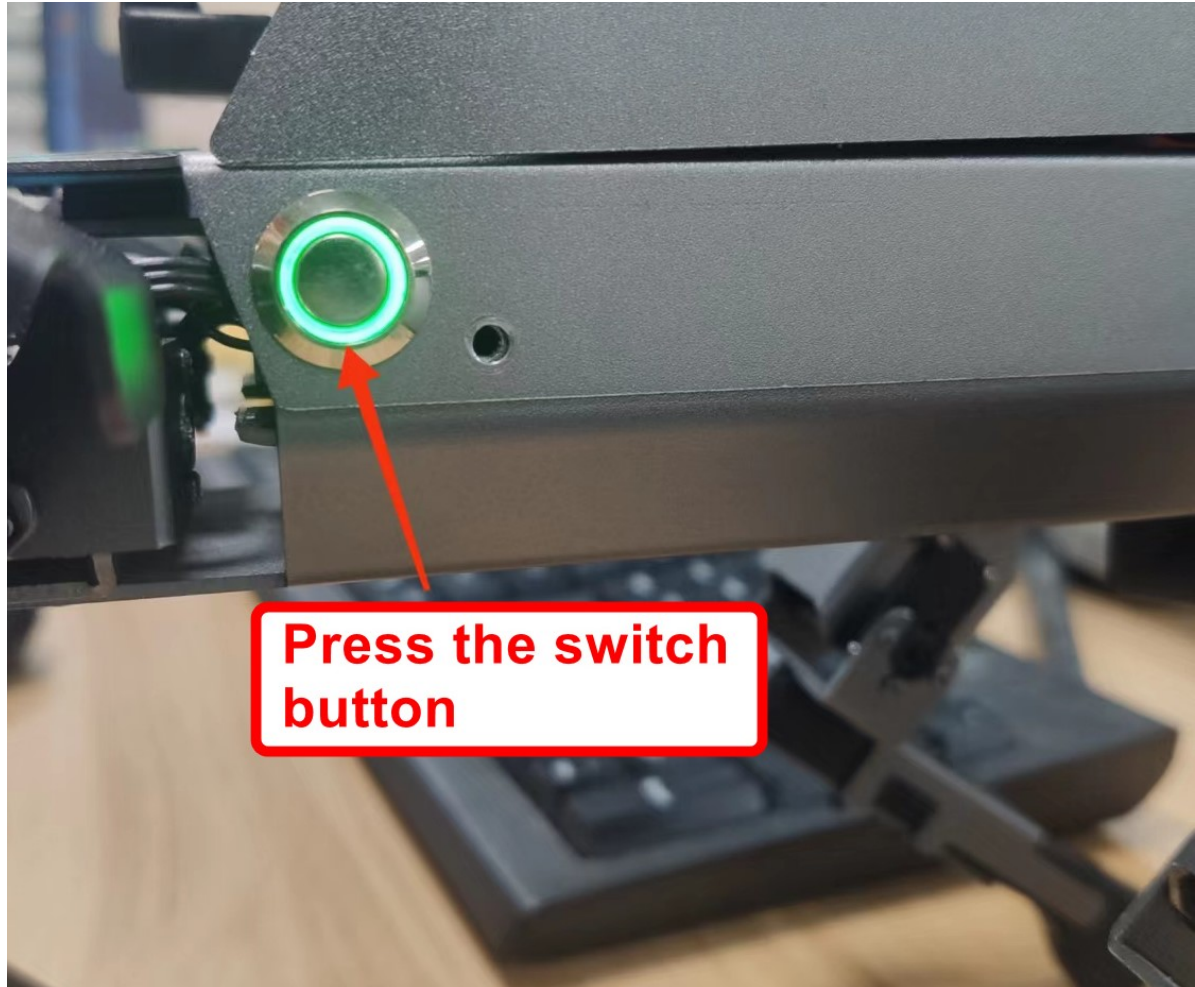


Voice controlled mechanical dog movement

Quick use

1. Power on DOGZILLA

First, we turn on the switching power supply of the mechanical dog and start the mechanical dog



After starting, we can view the IP address on the small screen of the robot dog.

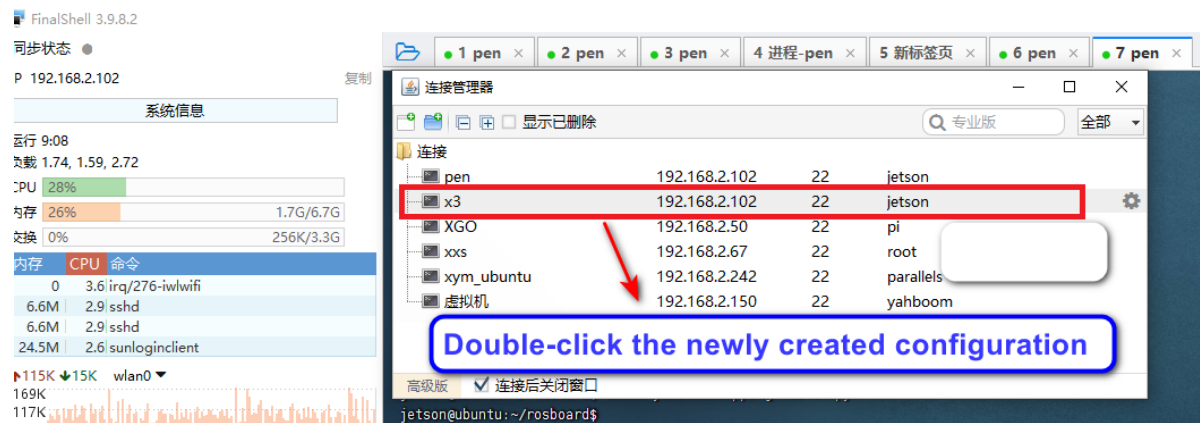
2. Start DOGZILLA chassis

PI4 version steps:

Then use the ssh terminal to connect to the robot dog.

Note: The IP address used when writing this tutorial: 192.168.2.102 User name: pi Password: yahboom The actual IP address shall prevail when used.

Open the shell tool. The shell tool I use here is FinalShell. Enter username, password, port, connection name and other information.



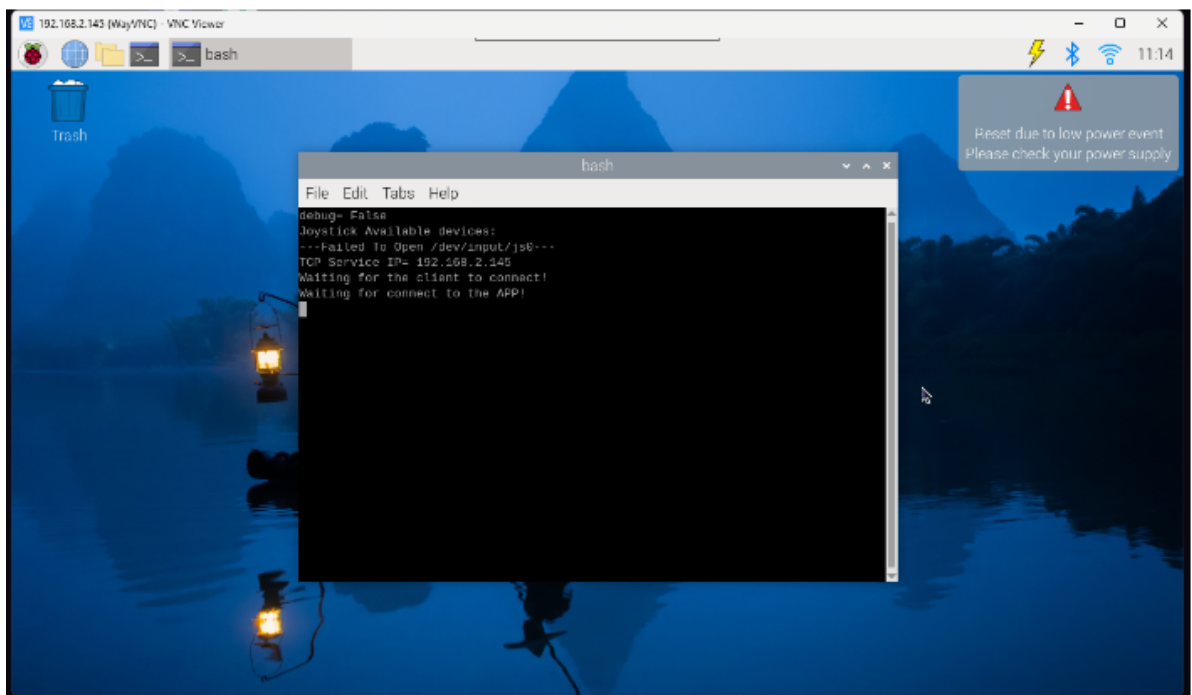
Enter the command in the terminal to start the chassis task.

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

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

PI5 version steps:

After the mechanical dog is started, use the vnc software to remotely connect to the mechanical dog through the IP address on the OLED (**For specific steps, please see "Remote Login Operation"**).



Then ctrl+c closes the large program and enter the following command to enter docker:

```
./run_humble.sh
```



```
#pi4
cd ~/cartographer_ws2
source install/setup.bash
ros2 run voice_xgo_ctrl_run voice_xgo_ctrl_run
#pi5 (need to enter the docker container)
cd yabomcar_ws/
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 he said to the mechanical dog: "Hello, Yahboom".

The robot dog will respond: "Yes."

Then say to the mechanical dog: "The car moves forward" or "The car moves back" etc.

The voice commands include: car forward, stop, car back, car turn left, car turn right. The mechanical dog recognizes the voice command and will perform corresponding actions.

Note: After the mechanical dog is awakened by voice, it does not need to be awakened again within 20 seconds.