1. Label identification

Quick use

1. DOGZILLA POWER UP

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

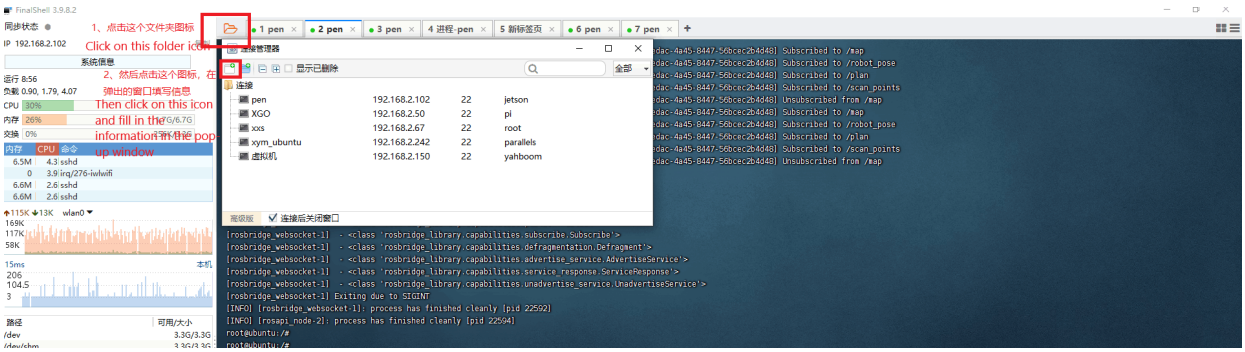
After startup, we can view the IP address on the robot dog's small screen.

2. Open shell to connect to DOGZILLA

Then use the ssh terminal to connect to robot dog.

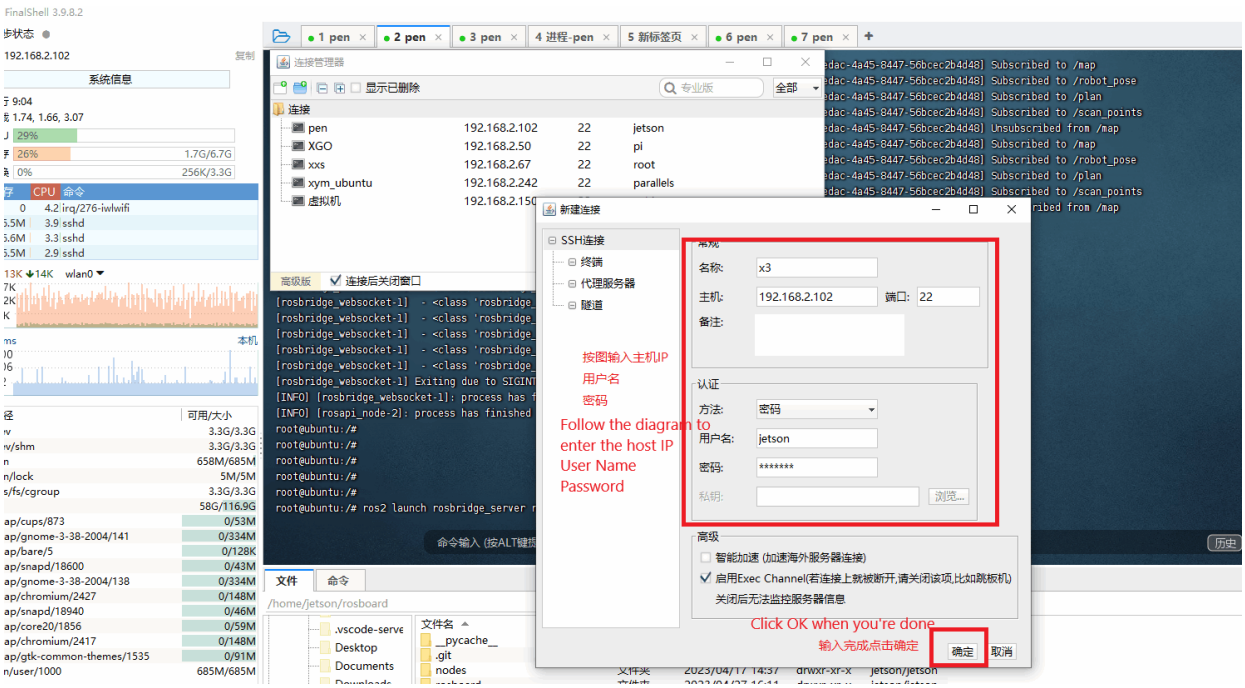
Note: At the time of writing this tutorial, the IP address used is 192.168.2.102 and the username is pi and the password is yahboom, so the actual IP address will prevail.

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

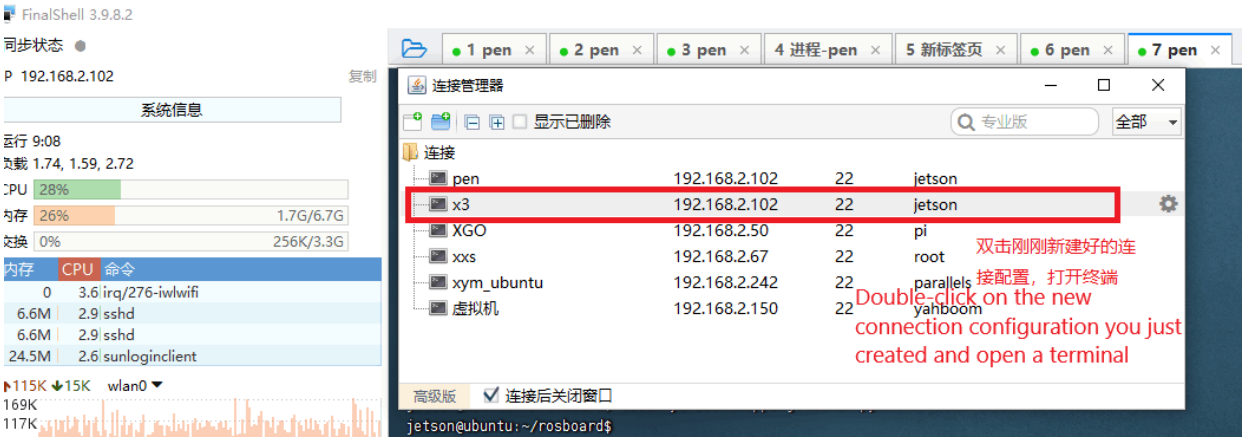


Select ssh connection to create a new ssh connection

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



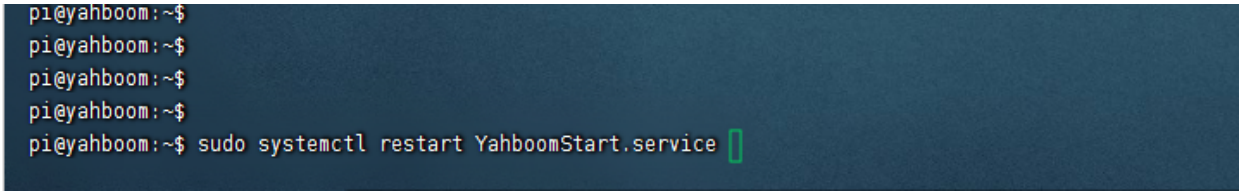
Here select the new ssh connection you just created.



3. Starting the DOGZILLA chassis

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

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



4. Start the image publishing node

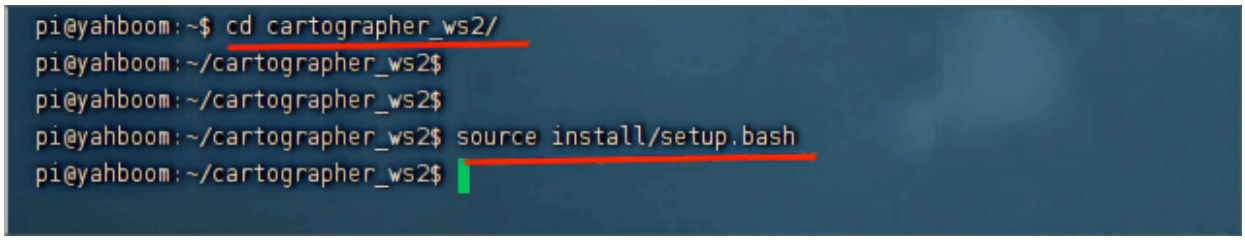
First enter the following two commands in the terminal

```
export PATH=/home/pi/opencv_install/bin:$PATH
export LD_LIBRARY_PATH=/home/pi/opencv_install/lib:$LD_LIBRARY_PATH
```

Enter the following command in the terminal

```
cd cartographer_ws2/
```

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



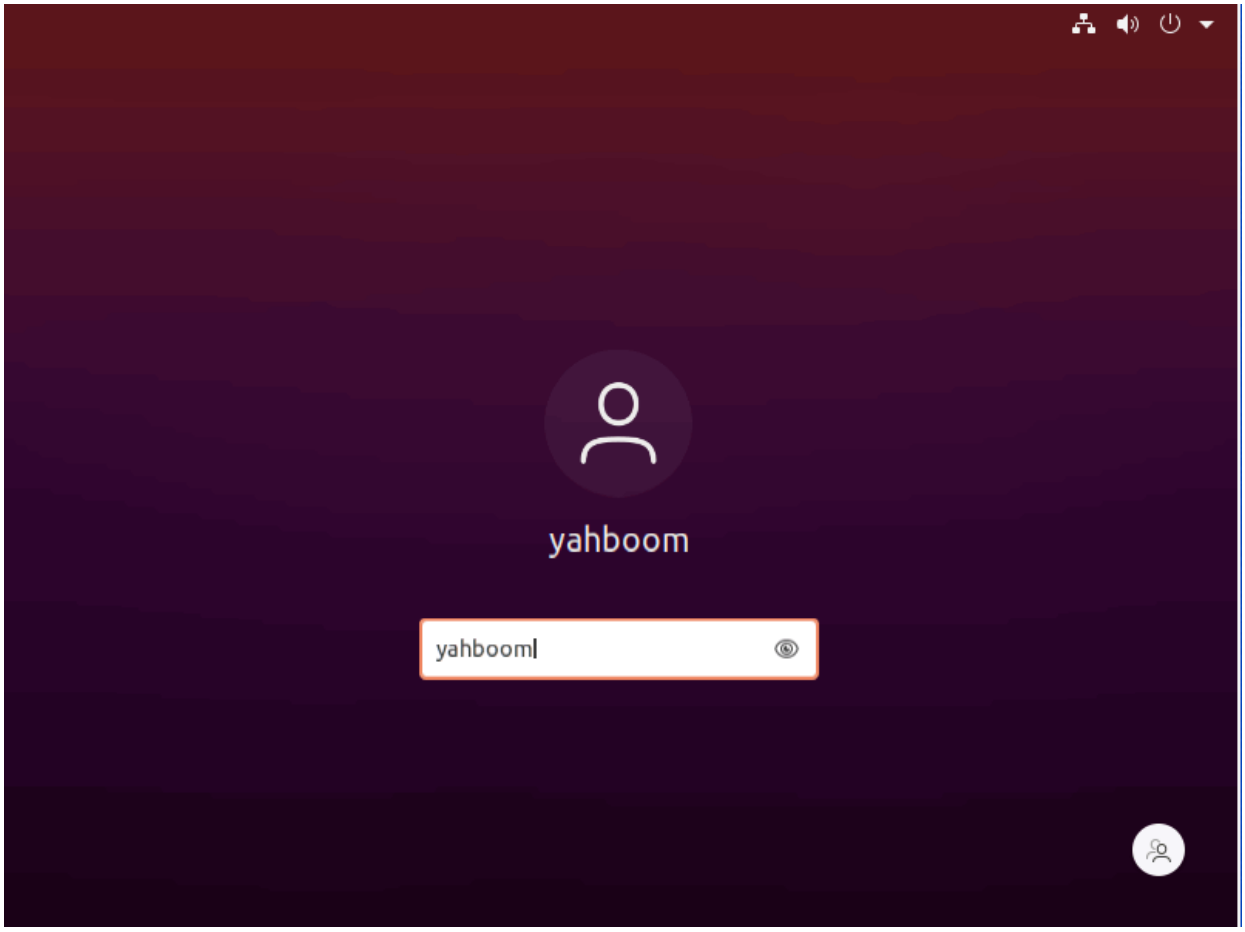
Then enter the following command

```
ros2 run yahboom_qrcode yahboom_qrcode_node
```

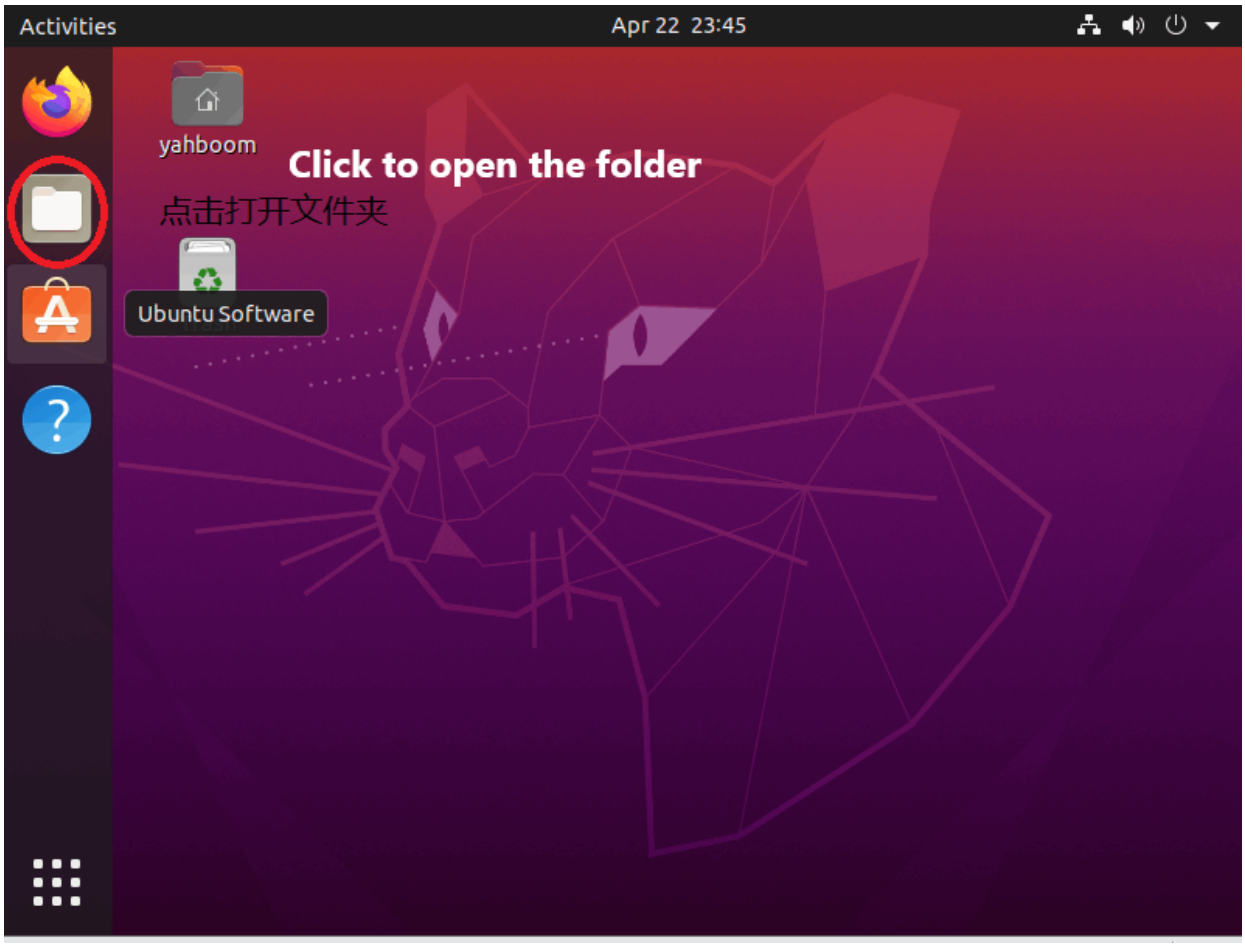
```
pi@yahboom:~/cartographer_ws2$ ros2 run xgo_qrcode xgo_qrcode_node
[ WARN:0@0.334] global cap_gstreamer.cpp:2784 handleMessage OpenCV | GStreamer warning: Embedded video playback halted; module source reported:
 Could not read from resource.
[ WARN:0@0.335] global cap_gstreamer.cpp:1679 open OpenCV | GStreamer warning: unable to start pipeline
[ WARN:0@0.336] global cap_gstreamer.cpp:1164 isPipelinePlaying OpenCV | GStreamer warning: GStreamer: pipeline have not been created
A demo program of WeChat QRCode Detector:

------------------------------------------------------------
11111,here.
------------------------------------------------------------

init,fov.0.997839
init111,foh. 0.707185
```

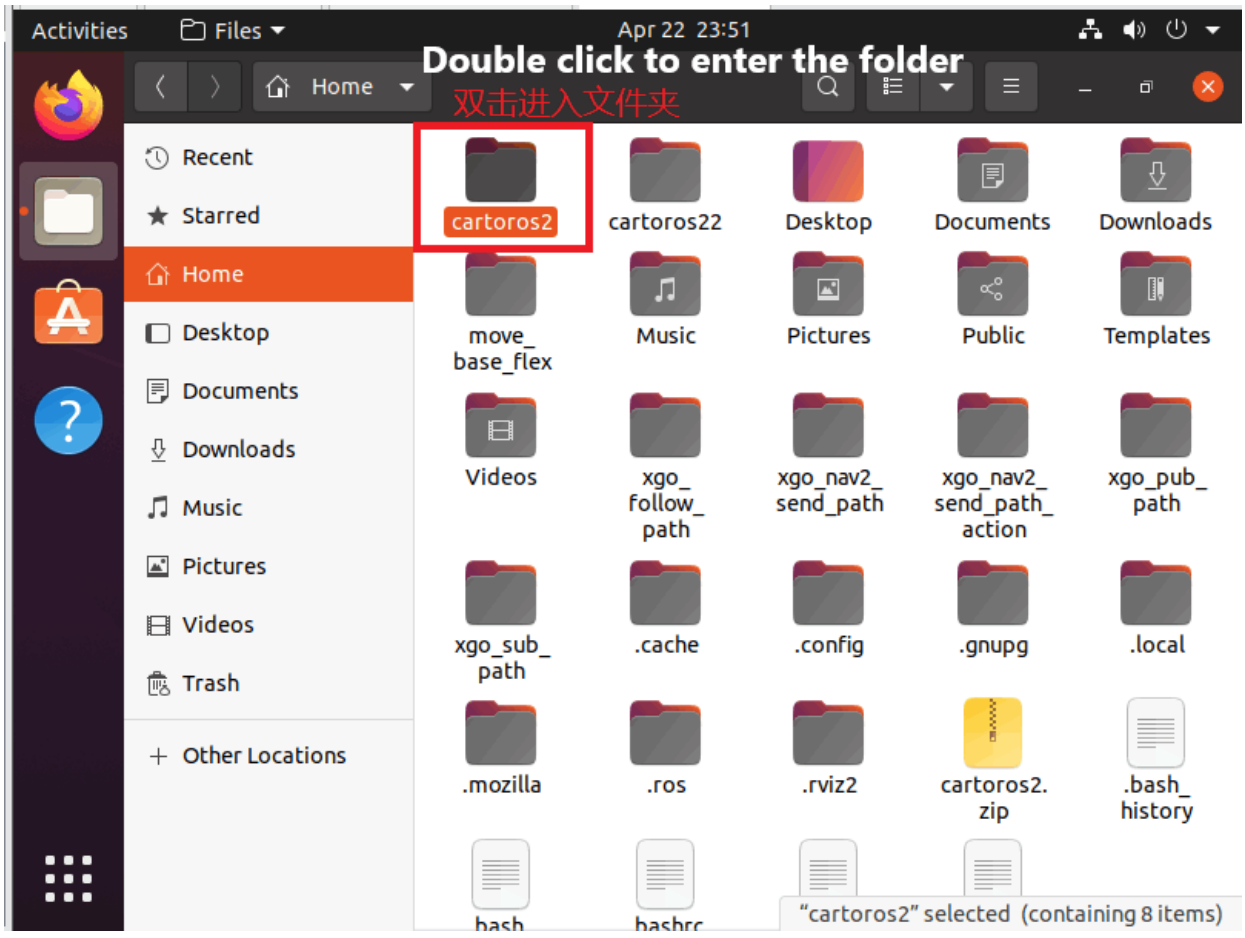
5. Setting the recognition colours through the web interface

Open the virtual machine and enter the username yahboom, password yahboom.

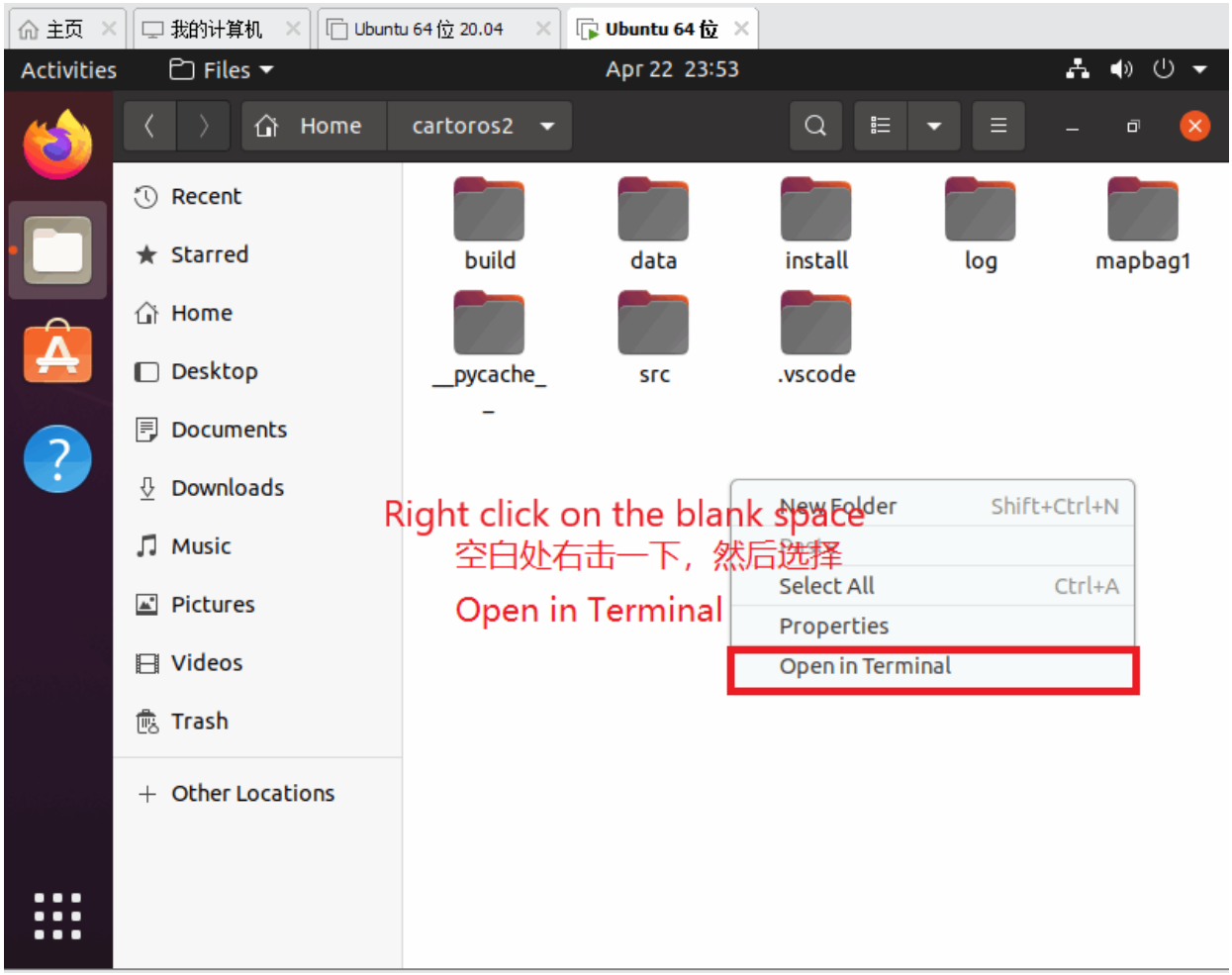


Click on the folder to open the cartoros2 folder.



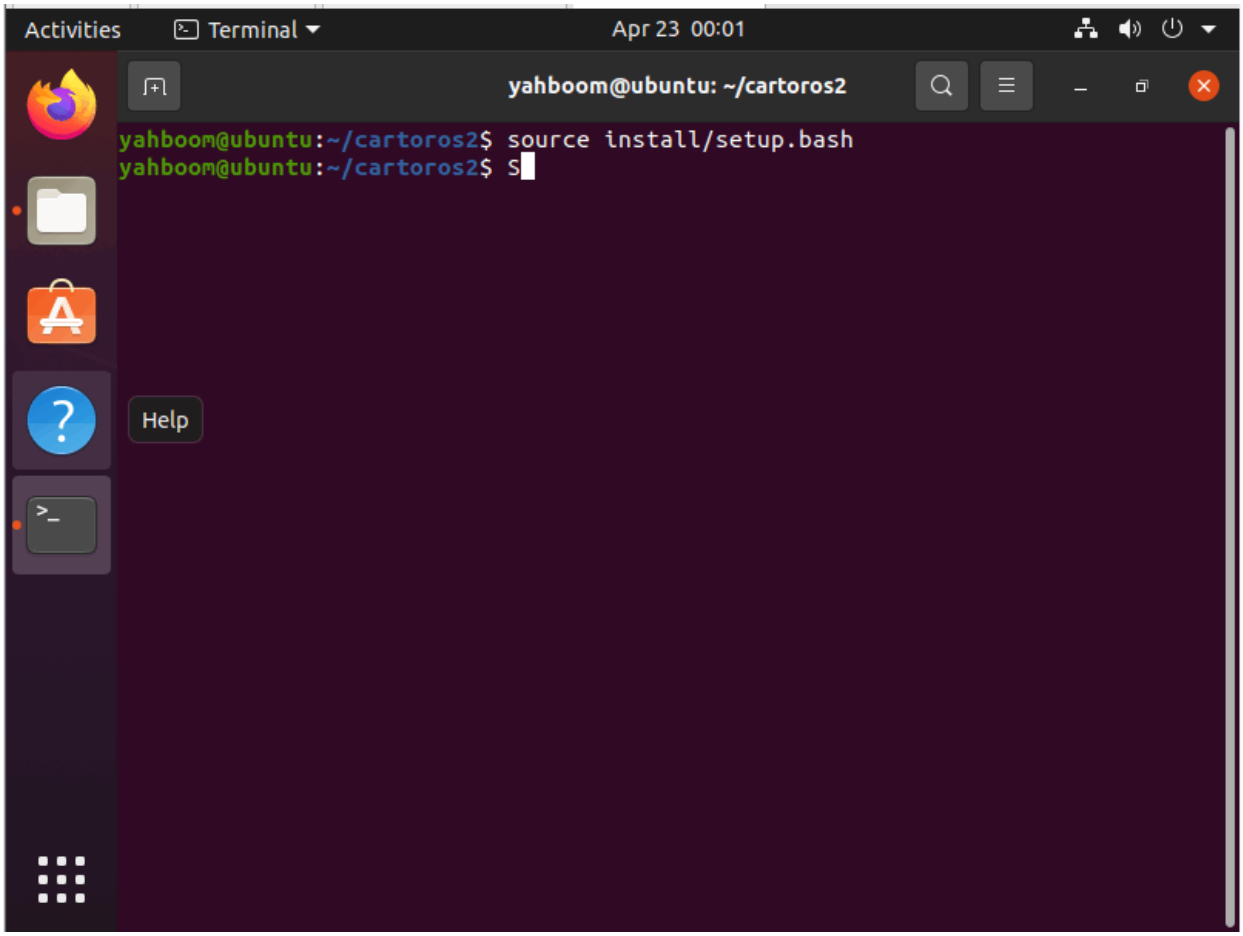


Open a terminal under the folder



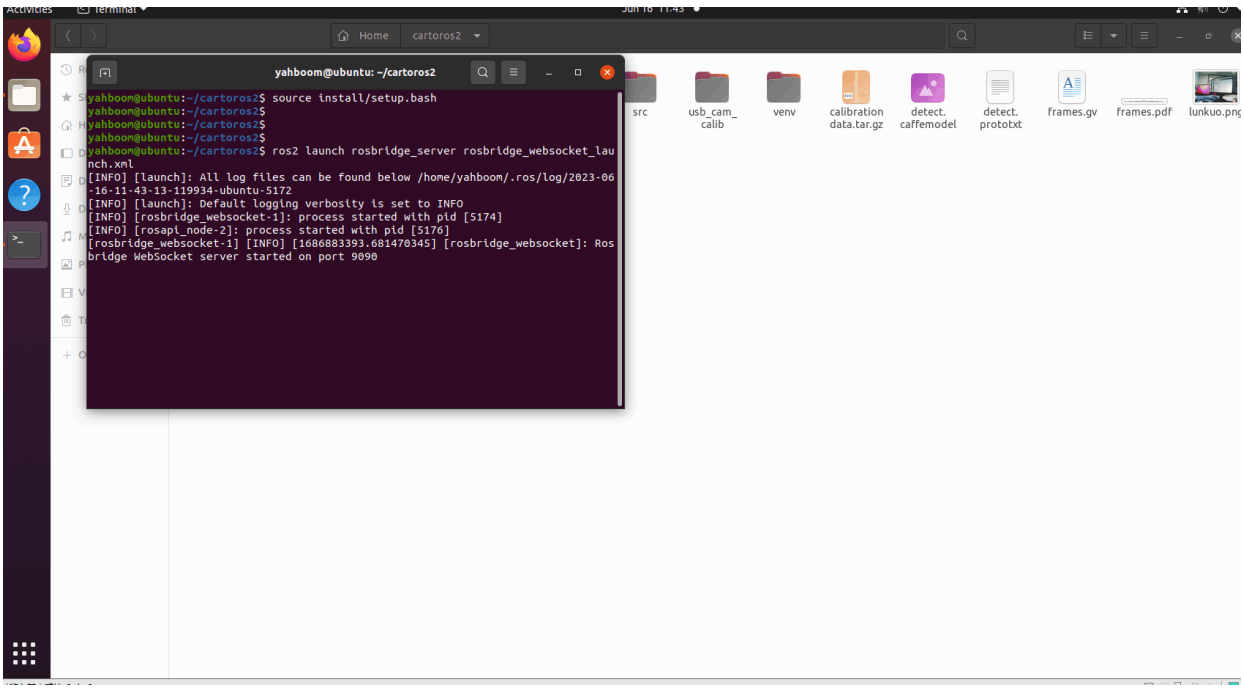
Then enter the following command

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



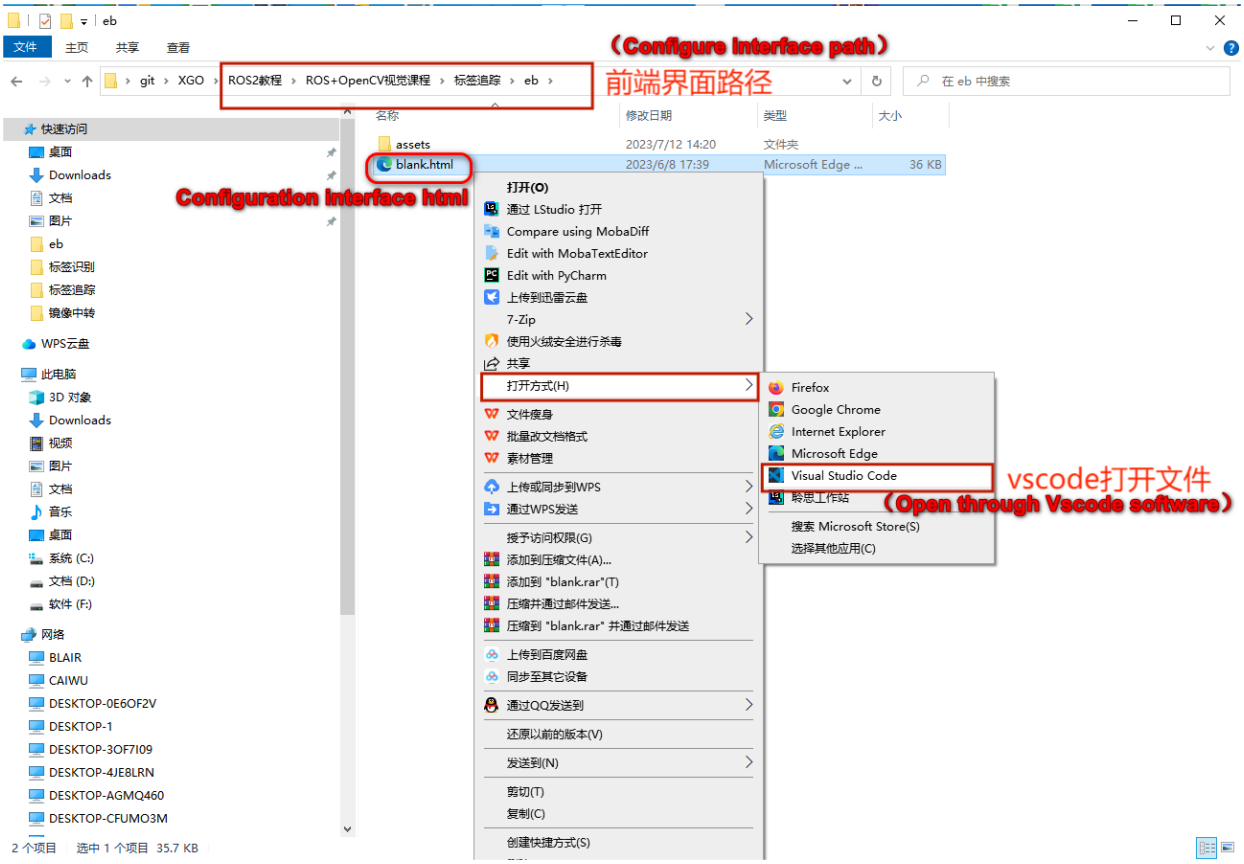
Then start rosbridge and enter the following command

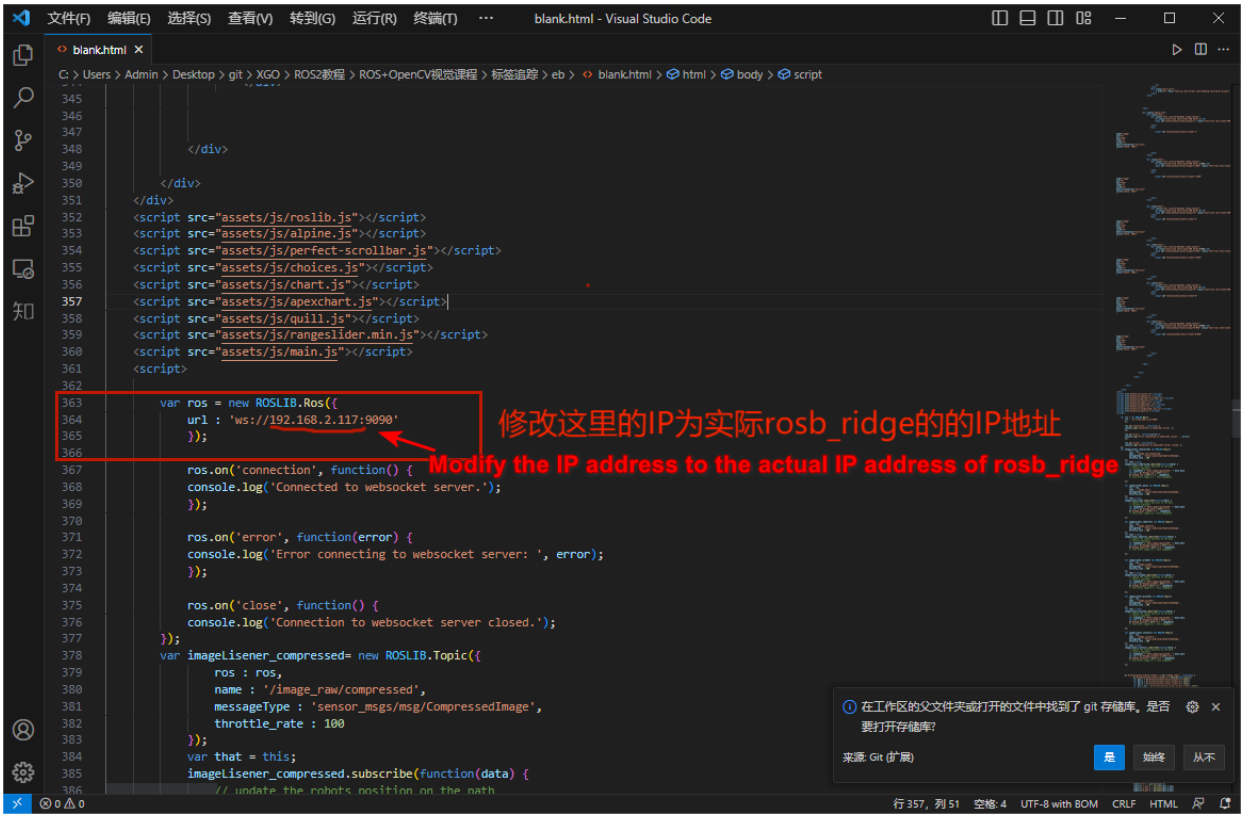
```
ros2 launch rosbridge_server rosbridge_websocket_launch.xml
```

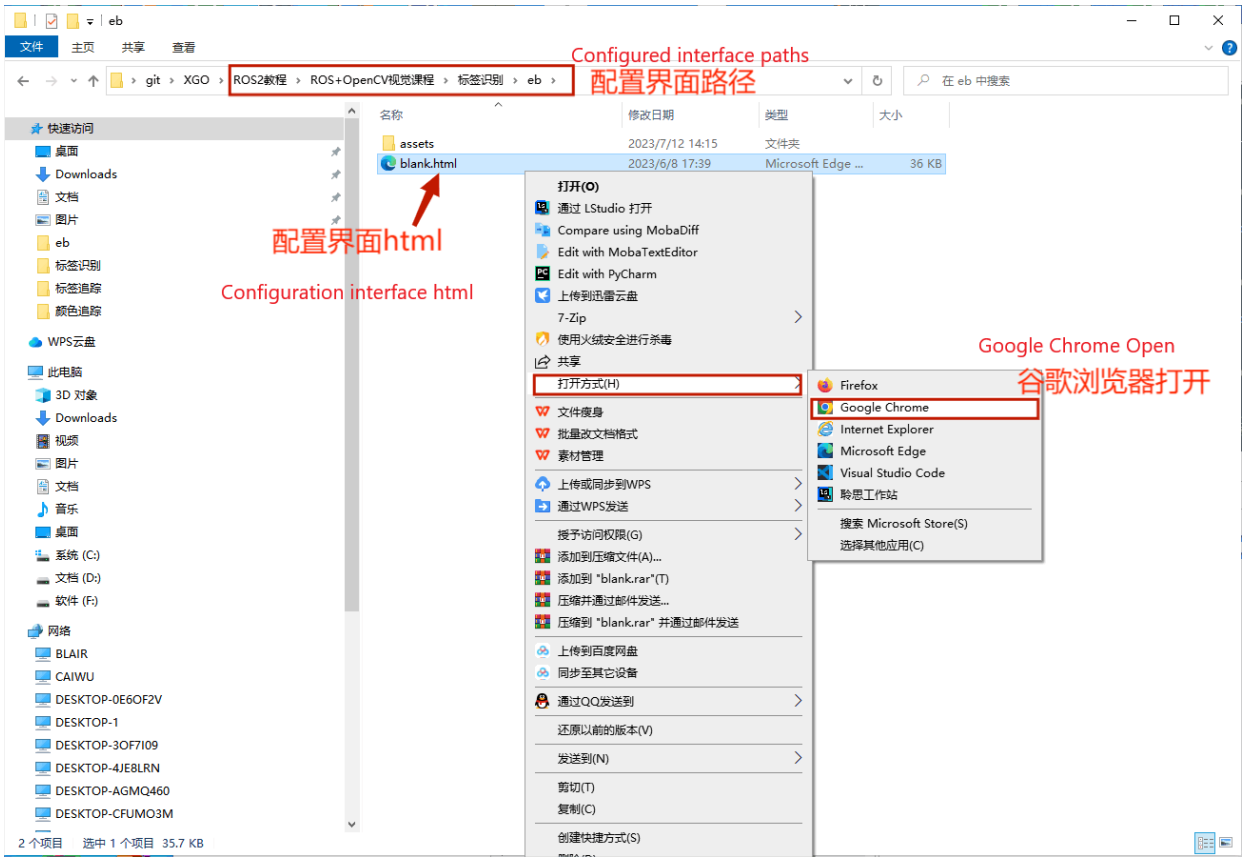


Find the blank.html file in the eb folder in the root directory of the tutorial and open it with Google Chrome.

Note: The IP address of rosbridge needs to be set here. Obtain the IP address of the virtual machine, then open the blank.html file, modify the IP address of line 363 and save it, as shown in the figure below.

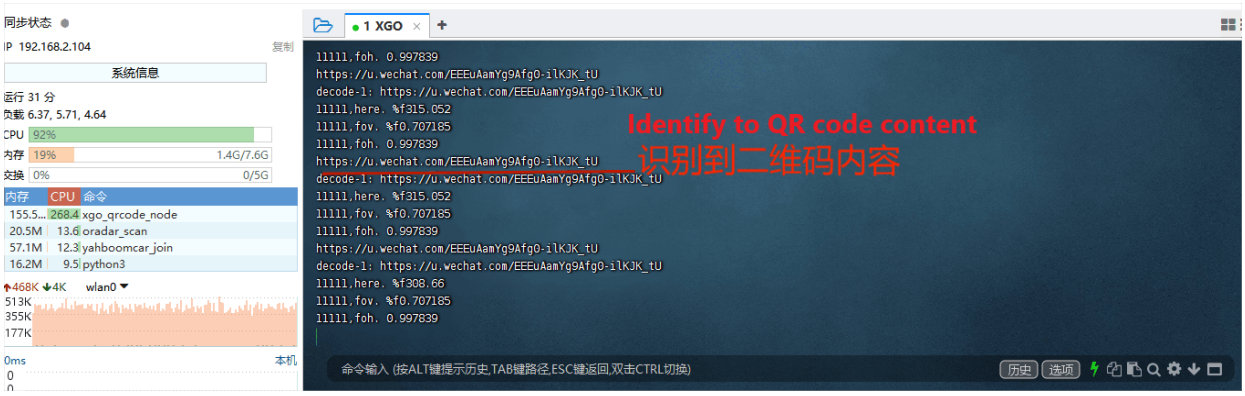






As shown in the figure below, show a QR code with your mobile phone, in my case a WeChat QR code, and you can see the image transmitted by the camera, as well as the recognized QR code data.

The recognized data is also printed in the final shell terminal.


同步状态
IP 192.168.2.104
复制
系统信息
运行 31 分
负载 6.37, 5.71, 4.64
CPU 92%
内存 19% 1.4G/7.6G
交换 0% 0/5G
内存 CPU 命令
155.5... 268.4 xgo_qrcode_node
20.5M 13.6 oradar_scan
57.1M 12.3 yahboomcar_join
16.2M 9.5 python3
468K 4K wlan0
513K
355K
177K
0ms 本机
0
0
1 XGO
11111,foh. 0.997839
https://u.wechat.com/EEEuAamYg9AfgO-ilKJK_tU
decode-1: https://u.wechat.com/EEEuAamYg9AfgO-ilKJK_tU
11111,here. %f315.052
11111,fov. %f0.707185
11111,foh. 0.997839
https://u.wechat.com/EEEuAamYg9AfgO-ilKJK_tU
decode-1: https://u.wechat.com/EEEuAamYg9AfgO-ilKJK_tU
11111,here. %f315.052
11111,fov. %f0.707185
11111,foh. 0.997839
https://u.wechat.com/EEEuAamYg9AfgO-ilKJK_tU
decode-1: https://u.wechat.com/EEEuAamYg9AfgO-ilKJK_tU
11111,here. %f308.66
11111,fov. %f0.707185
11111,foh. 0.997839
Identify to QR code content
识别到二维码内容
命令输入 (按ALT键提示历史,TAB键路径,ESC键返回,双击CTRL切换)
历史
选项