# 树莓派配置ubuntu20.04

## 系统配置

### 镜像

ubuntu mate: https://releases.ubuntu-mate.org/20.04/arm64/

正版ubuntu20.04 desktop的镜像没有找到,目前采用的方法是先装server版,再单独装桌面。server版的镜像在树莓派官方提供的烧录软件里就有,下载地址是<u>https://downloads.raspberrypi.org/imager/imager\_latest.exe</u>

### 启动报错

#### 注意: 树莓派启动需要先插显示器再插电源!!! 否则显示器无画面

如果启动的时候报这个错,说明树莓派的固件需要更新,去这个网站下载最新固件<a href="https://github.com/raspberrypi/rpi-firmware">https://github.com/raspberrypi/rpi-firmware</a>,看显示什么固件出问题就换对应的就行,即如果提示 start4.elf 不可用,则将系统的boot盘中的 start4.elf 与 fixup4.dat 用下载的最新固件包中的相同文件替换即可。

```
04:37
          Pashbarry Pi / Model P - 968
          bootloader: c2f8c388 Apr 29 2021
           update-ts: 1619/12685
  board: d03115 6c270869 e4:5f:01:90:ea:4e
   boot: mode SD 1 order f41 retry 1/1 restart 7/-1
     SD: card detected 00fe3432534431364720000009a00151
  part: 0 mbr [0x0c:00002000 0x82:00091000 0x83:00185000 0x00:00000000
  fw: start4.elf fixup4.dat
  net: down ip: 0.0.0.0 sn: 0.0.0.0 gw: 0.0.0.0
tftp: 0.0.0.0 00:00:00:00:00
rsc 16 fat-sectors 144 c-count 36587 c-size 16 r-dir 1 r-sec 32
Trying partition: 0
lba: 8192 oem: 'mkfs.fat' volume: ' V
rsc 16 fat-sectors 144 c-count 36587 c-size 16 r-dir 1 r-sec 32
Read config.txt bytes 1849 hnd 0x0000239d
Read start4.elf bytes 2227200 hnd 0x00000eff
Read fixup4.dat bytes 5430 hnd 0x00000192
Firmware: 99d9a48302e4553cff3688692bb7e9ac760a03fa Jan 27 2021 22:19:57
0x00d03115 0x00000000 0x0000003f
start4.elf: is not compatible
This board requires newer software
Get the latest software from https://www.raspberrypi.org/downloads/FengZ
```

## 配置网络

https://blog.csdn.net/gq\_30613365/article/details/120739069

```
cd /etc/netplan
sudo vi 50-cloud-init.yaml
```

这里建议连接手机热点

```
# This file is generated from information provided by the datasource. Changes
# to it will not persist across an instance reboot. To disable cloud-init's
# network configuration capabilities, write a file
# /etc/cloud/cloud.cfg.d/99-disable-network-config.cfg with the following:
# network: {config: disabled}
network:
    ethernets:
        eth0:
           dhcp4: true
           optional: true
    version: 2
    wifis:
        wlan0:
                                       _ 将MyWiFi换成你的wifi名
           optional: true
           access-points:

→ 将MyPass换成你的wifi密码

                "MyWiFi":
                   password: "MyPass"
            dhcp4: true
                                                                   CSDN @小白天才
```

```
sudo netplan -debug try
sudo netplan -debug generate
sudo netplan -debug apply
```

如果没成功连接wifi, 重启就行了

注意:用这种方法连接热点后,安装图形化界面时会导致找不到wifi,此时需要再次进入这个文件,把wifis字段的所有内容注释掉,再执行一下上面三行代码就行了。

### 换源

树莓派上ubuntu的源跟正常的不一样,多了一个ports

```
# 粘贴到末尾

deb https://mirrors.ustc.edu.cn/ubuntu-ports/ focal main restricted universe
multiverse
deb https://mirrors.ustc.edu.cn/ubuntu-ports/ focal-updates main restricted
universe multiverse
deb https://mirrors.ustc.edu.cn/ubuntu-ports/ focal-backports main restricted
universe multiverse
deb https://mirrors.ustc.edu.cn/ubuntu-ports/ focal-security main restricted
universe multiverse

sudo apt-get update
sudo apt-get upgrade
```

## 安装桌面

https://blog.csdn.net/weixin 44415639/article/details/123357377

```
sudo apt install ubuntu-desktop
```

此时重启完就有桌面了

# 查看本机ip

ifconfig # 查看公网ip, 进行ssh或vnc连接

# 安装RealVNC

https://www.realvnc.com/en/connect/download/vnc/

记得选树莓派arm64版的

```
sudo dpkg -i VNC-Server*.deb
```

#### 设置开机自启

sudo systemctl enable vncserver-x11-serviced.service

#### 启动VNC

sudo systemctl start vncserver-x11-serviced.service