并行编译与优化 Parallel Compiler and Optimization

计算机研究所编译系统室

Introduction to Raspberry Pú 树莓派介绍



Contents

- ■1. Raspberry Pi
- **2.** Development Environment

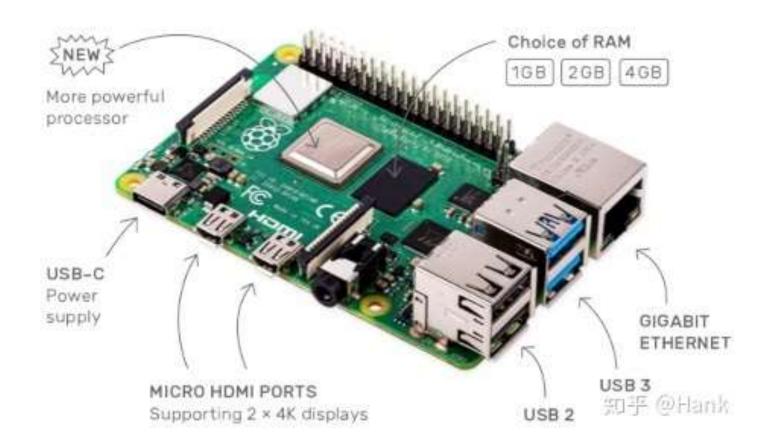
What is Raspberry Pi?

An ARM-based miniature computer

- Equipped with ARM processors (e.g., Cortex-A72)
- Use SD/MicroSD card as memory hard disk
- Provide USB interface to connect peripherals, such as mouse, keyboard
- HDMI interface

1. Raspberry Pi

Overview



Start with?

- ■1. Install Operating System (OS)
- **2.** Control Raspberry Pi
- **■3. Shutdown Cautiously**

Install Operation System

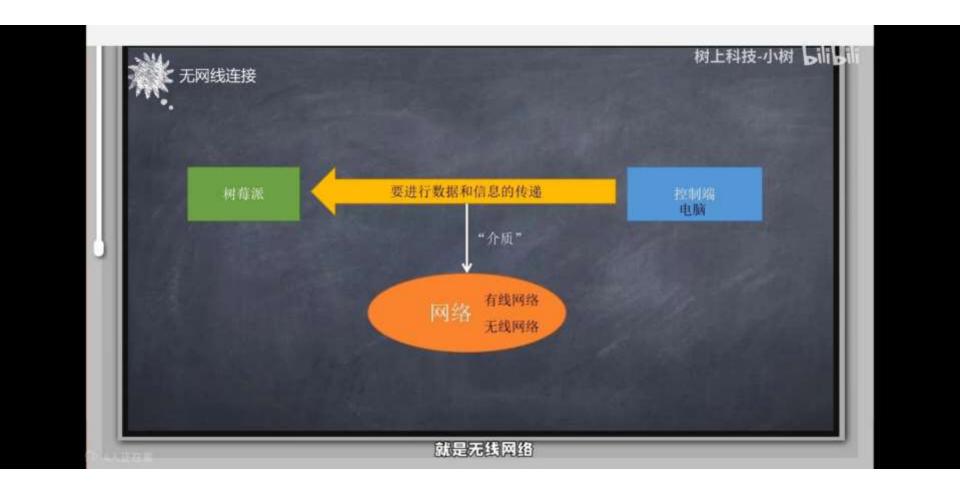
Selectable versions:

- Raspberry Pi OS with desktop
- Raspberry Pi OS Lite
- 32 or 64 bit

Control Raspberry Pi

- > Regard it as a PC
- > Regard it as a Server
 - Build connection by SSH
 - Remote control

Control Principle



Configurate IP

Local configurations:

IP 设置

IP 分配: 手动

IPv4 地址: 192.168.1.100

IPv4 子网前缀长度: 24

IPv4 网关: 192.168.1.1

编辑

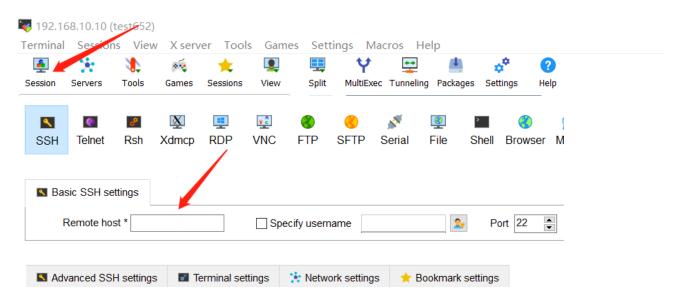
Configurate IP

Connection via SSH:

1. Download MobaXterm.exe

https://mobaxterm.mobatek.net/

2. Build a new configuration



Shutdown Cautiously

Recommended way:

- sudo shutdown -h now
- sudo halt
- sudo poweroff

And Reboot?

• sudo reboot

Common Commands

- > Set the gateway route add default gw 192.148.43.1
- ➤ Launch SSH servie systemctl enable ssh service ssh start
- Look over ip addresses ifconfig

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Resources

Including but not limited to:

> Official website

https://www.raspberrypi.com/

> CSDN

https://blog.csdn.net/weixin_45985341/article/details/113780422

> Bilibili

https://b23.tv/OoPqFAb

Configurate IP

Connection via SSH:

Surf the Internet via wlan0

- > Graphical interface
- Configurate file
 - vim /etc/wpa_supplicant/wpa_supplicant.conf
 - 2. Write following to the file

```
network={

ssid="" wifiname

psk="" Password
}
```

3. Reboot