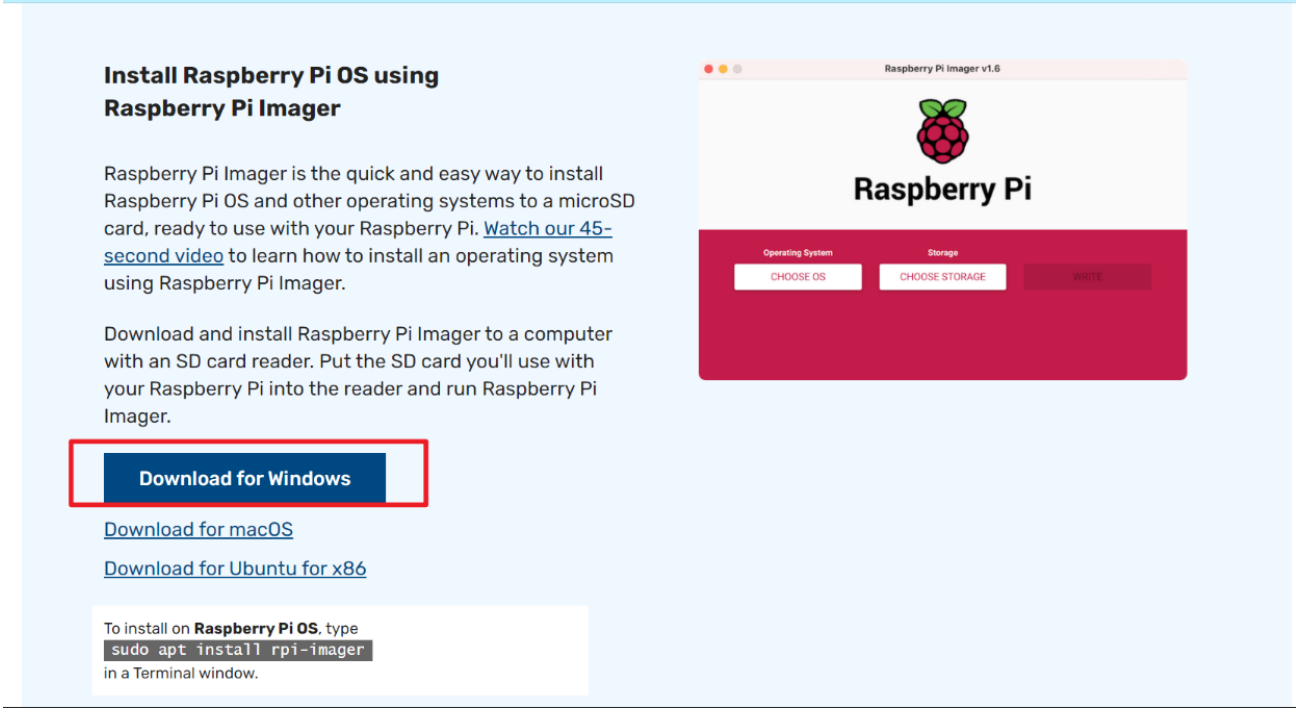
Raspberry Setup

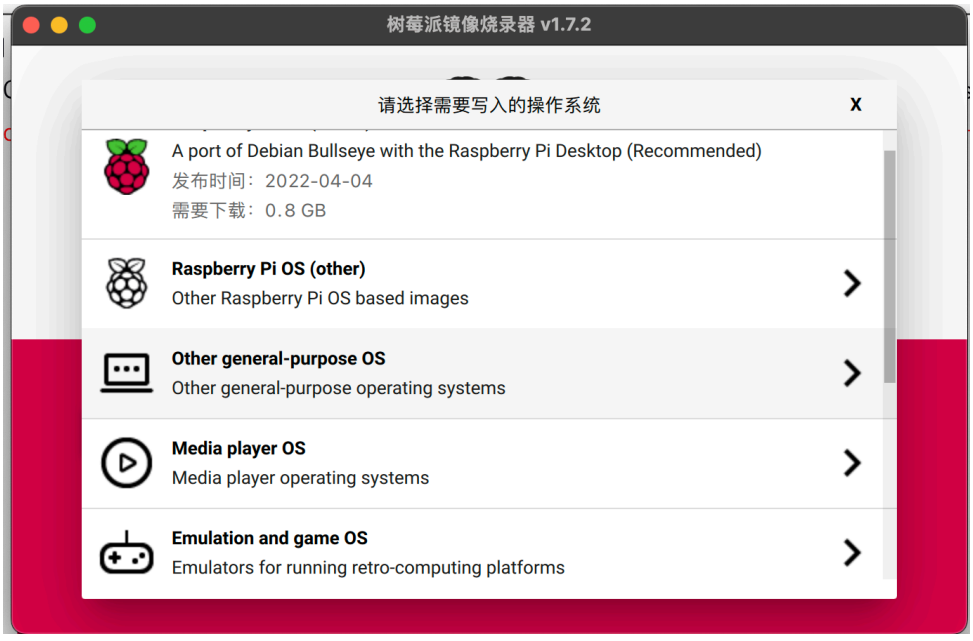
Download Raspberry Pi Imager (https://www.raspberrypi.org/software/)

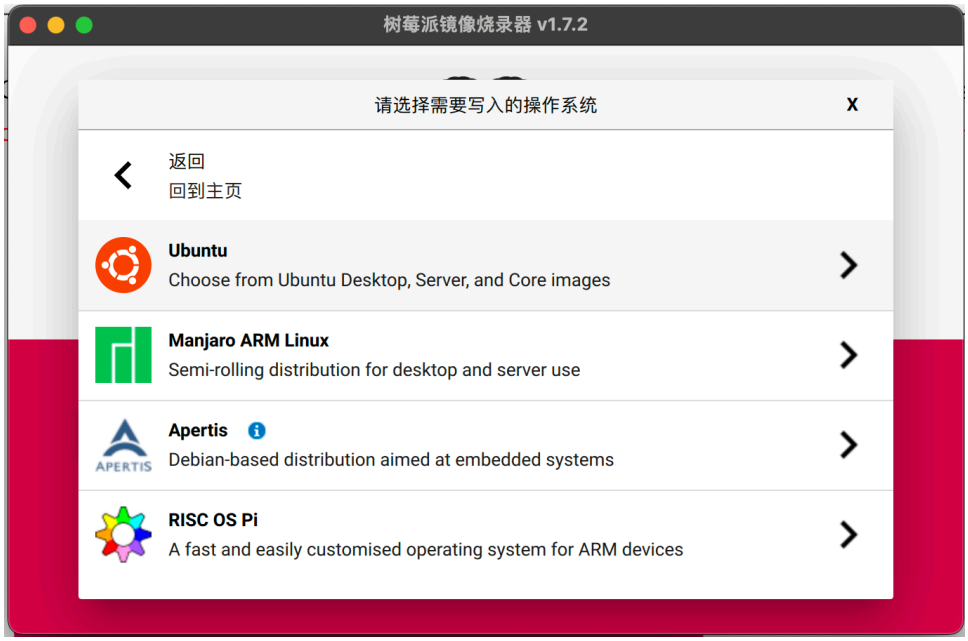
- After opening the above website, click the button circled in red to download the system-corresponding version of the Raspberry Pi Imager burning tool, and download and save the tool to the computer according to the browser prompts.

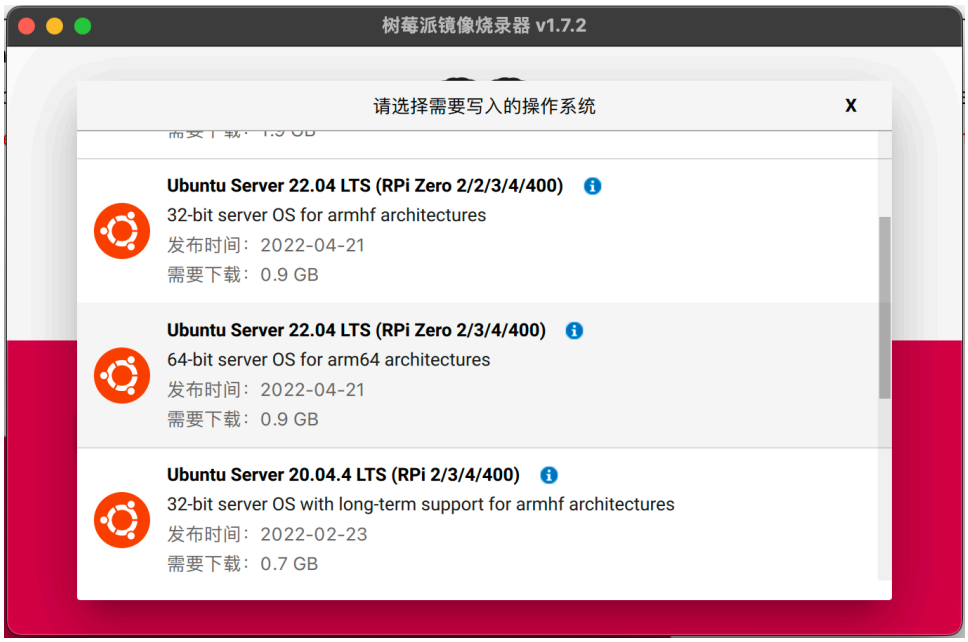


Install System

1. Click the first button (`CHOOSE OS`) to select the operating system to be installed, select `other general purpose OS`, and after clicking, select `ubuntu server 22.04 LTS 64-bit`.







2. Insert the SD card into the PC (through a reader), click **`CHOOSE STORAGE`**, and select the corresponding SD card.

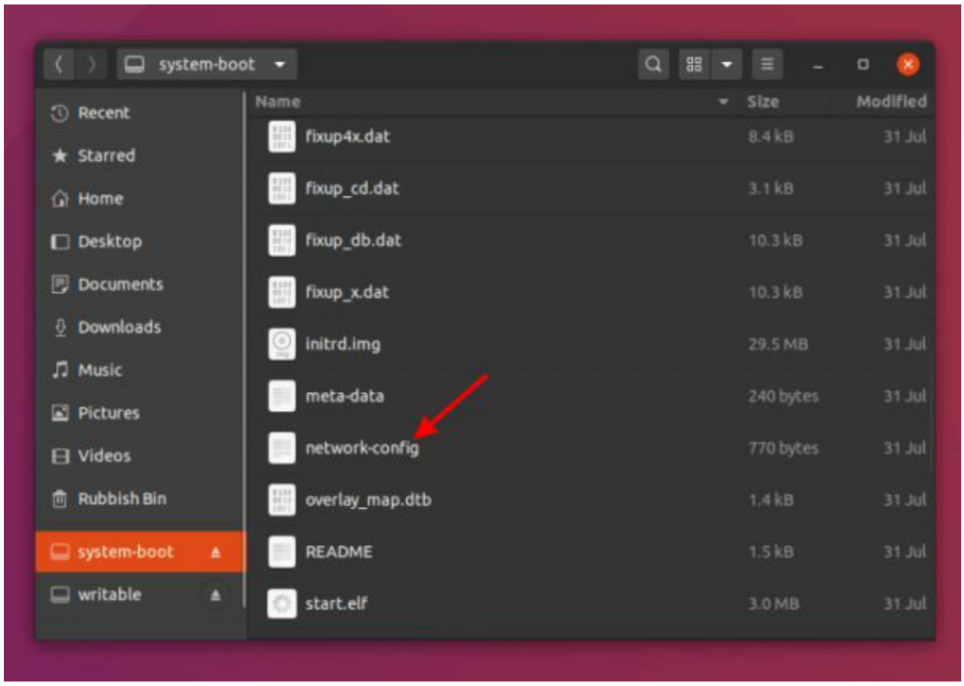
3. After the above steps are completed, click `WRITE`, the Waring pop-up window that appears, directly select `YES`, and start burning the system, just wait quietly for the progress bar to 100%.

!!! Network Config !!!

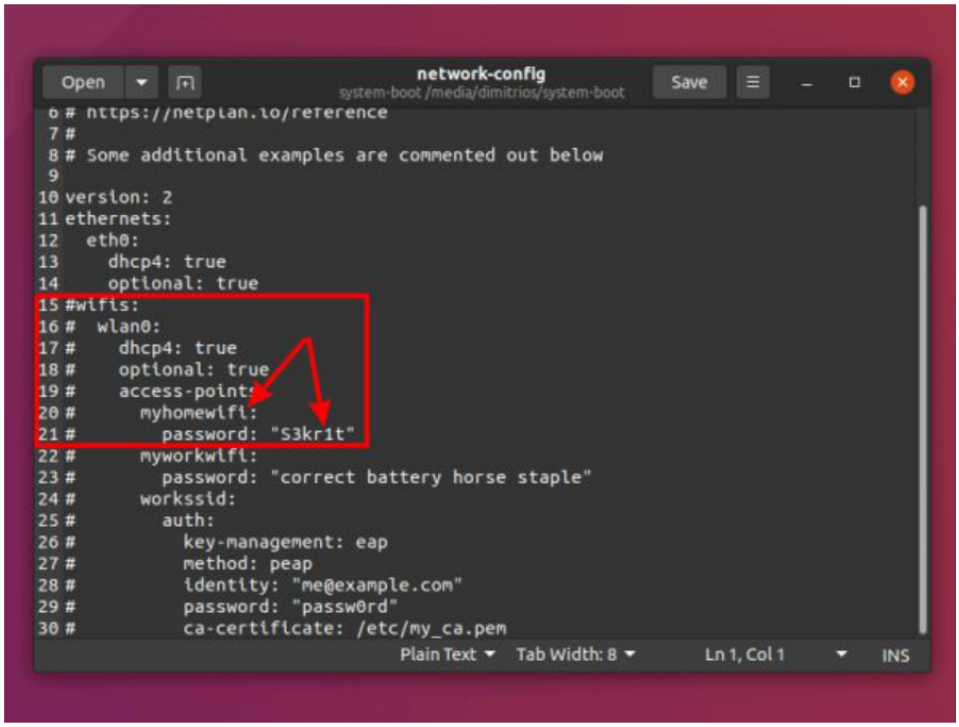
Set up WiFi

- ***This step is EXTREMELY important, PLEASE READ THE FOLLOWING INSTRUCTION CAREFULLY!***

1. Open the file manager and find the "**system-boot**" partition on the card. The file you are looking for and need to edit is called `network-config`.



2. This process can also be done on Windows and MacOS. Edit the `network-config` file as before, adding your Wi-Fi credentials.



1. First, **uncomment** the line inside the rectangle (remove the leading # tag).
2. Then, replace `myhomewifi` with **your Wi-Fi network name**, this time the WI-FI network name we used is "**summercamp**". Replace "**S3kr1t**" with the **Wi-Fi password**, enclosed in **quotes**, the password we used is "**summercamp**"
3. Now LOOK UP, change the following lines:

```
ethernets:
  eth0:
    dhcp: true
    optional: true
```

to the following content:

```
ethernets:
  eth0:
    dhcp: false
    optional: true
    addresses:
    - 192.168.0.8/24
    routes:
    - to: default
      via: default
    nameservers:
    addresses:
    - 8.8.8.8
    - 8.8.4.4
```

- **WARNING**: 不要用TAP！！ 注意缩进！！！

3. ***Remotely connect to your Raspberry Pi via SSH:****
    - Ubuntu and Mac OS: open *terminal*; Windows: open *PowerShell*;

- Run the following command: `ssh ubuntu@raspberry_pi_ip_address`.
- You may see the following message confirming the connection:
    - **"Are you sure you want to continue connecting (yes/no/[fingerprint])?"**
- Type `yes`
- **For the first login, the default username and password are both ubuntu**. After that a password change is needed. Once done, you will be automatically logged out and you will have to reconnect with your new password.

Your Ubuntu server is ready to run on Raspberry Pi!

- ***Plug in all the necessary wires before you connect the Raspberry Pi to the power supply.***

```
username: ubuntu
password: ubuntu
```