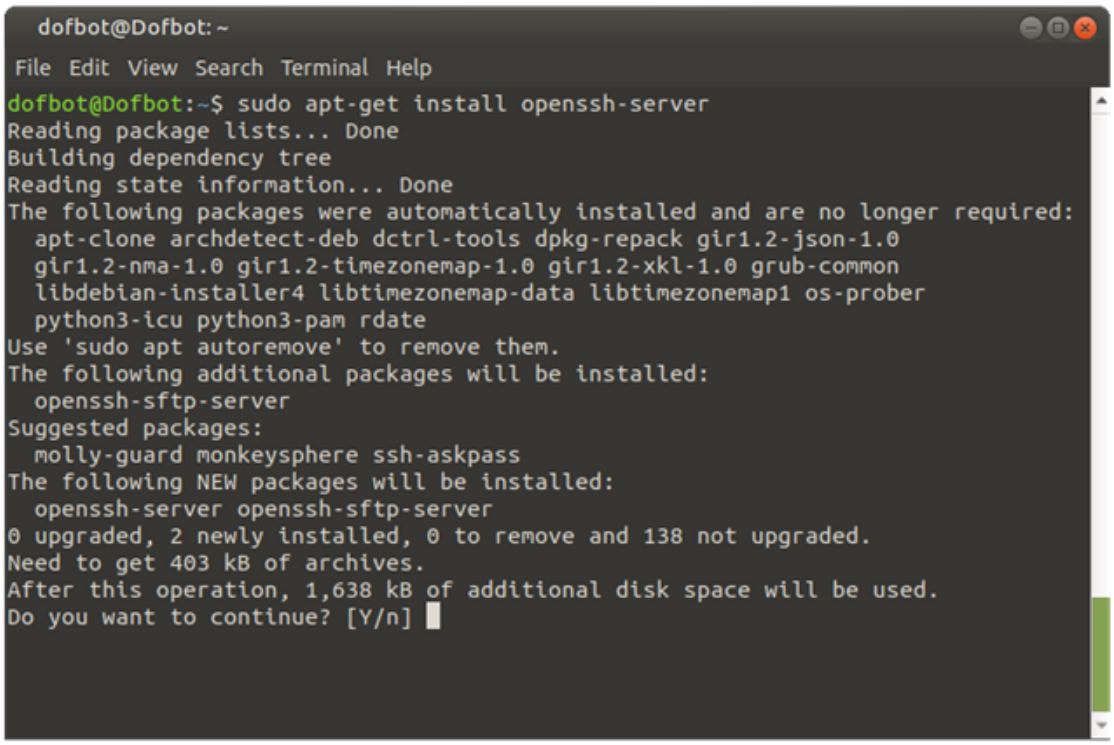
# 8.Remote SSH login to Raspberry Pi

Let's take the Win10 system to log in to the Raspberry Pi through the SSH service as an example.
Note: The Win10 computer and Raspberry Pi must be in the same LAN.

## 1. Install SSH service

Input following command to install the SSH service.

```
sudo apt-get install openssh-server
```



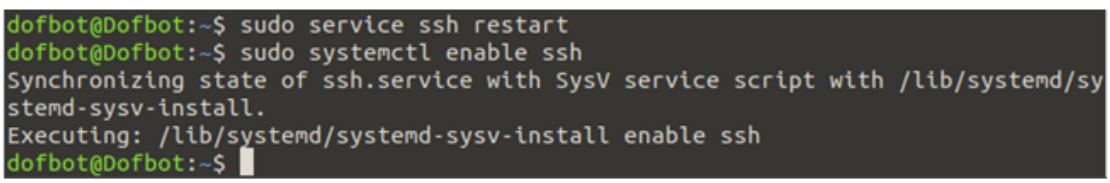

When prompted, enter **y** and press [Enter key] to confirm.

Input following command to restart SHH service

```
sudo service ssh restart
```

Input following command to add SSH service to the boot auto-start service

```
sudo systemctl enable ssh
```



## 2. Obtain the Raspberry Pi IP address

1. Input following command to install the network tool

```
sudo apt install net-tools
```

```
dofbot@Dofbot:~$ sudo apt install net-tools
[sudo] password for dofbot:
Sorry, try again.
[sudo] password for dofbot:
Sorry, try again.
[sudo] password for dofbot:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  apt-clone archdetect-deb dctrl-tools dpkg-repack gir1.2-json-1.0
  gir1.2-nma-1.0 gir1.2-timezonemap-1.0 gir1.2-xkl-1.0 grub-common
  libdebian-installer4 libtimezonemap-data libtimezonemap1 os-prober
  python3-icu python3-pam rdate
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  net-tools
0 upgraded, 1 newly installed, 0 to remove and 138 not upgraded.
```

2.Input following command to view IP address.

```
ifconfig
```

```
dofbot@Dofbot: ~
File  Edit  View  Search  Terminal  Help
dofbot@Dofbot:~$ ifconfig
eth0: flags=4099<UP,BROADCAST,MULTICAST>  mtu 1500
        ether dc:a6:32:71:c8:e0  txqueuelen 1000  (Ethernet)
        RX packets 0  bytes 0 (0.0 B)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 0  bytes 0 (0.0 B)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 254  bytes 21432 (21.4 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 254  bytes 21432 (21.4 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.2.102  netmask 255.255.255.0  broadcast 192.168.2.255
        inet6 fe80::368a:7ac0:d4ad:773b  prefixlen 64  scopeid 0x20<link>
        ether dc:a6:32:71:c8:e2  txqueuelen 1000  (Ethernet)
        RX packets 5517  bytes 1046811 (1.0 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 1536  bytes 1215437 (1.2 MB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

dofbot@Dofbot:~$
```

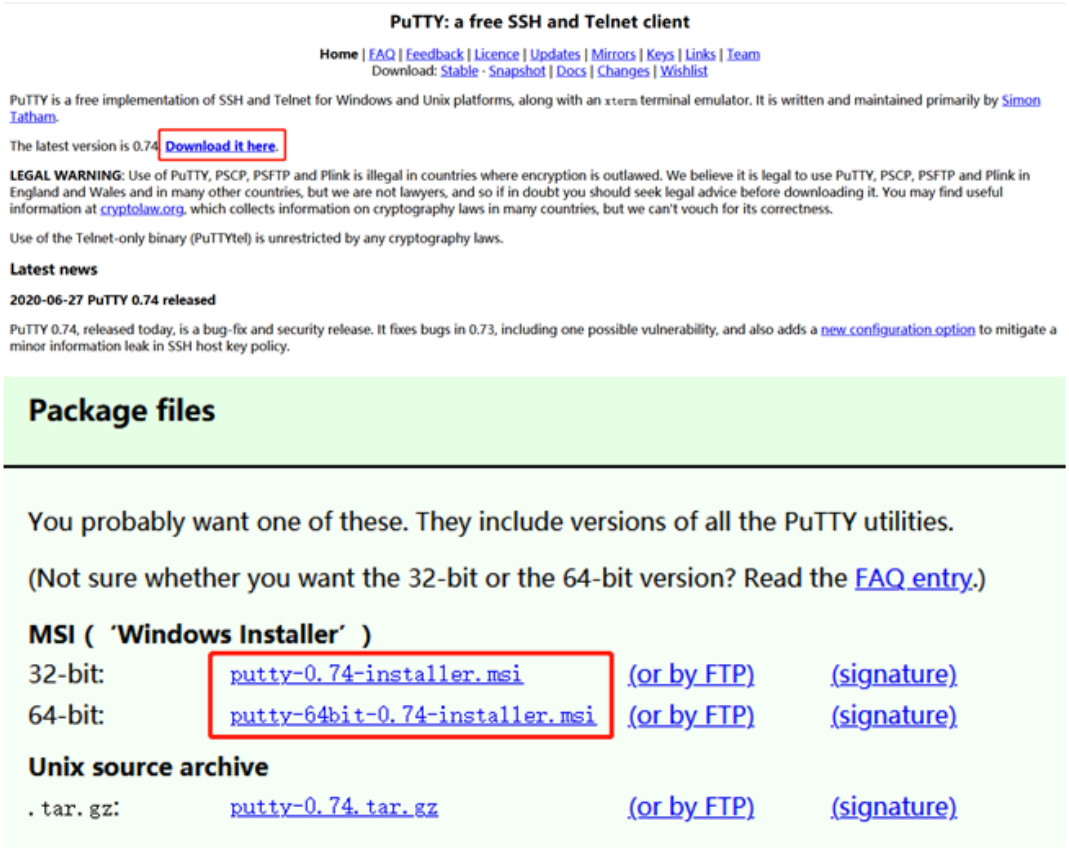
Find wlan0 in the picture, and behind inet you can see that the IP address of the Raspberry Pi is 192.168.2.102

If you are connected via a network cable, please check the Raspberry Pi IP address at eth0

## 3.Install putty on computer

1.Go to putty official website to download the installation package

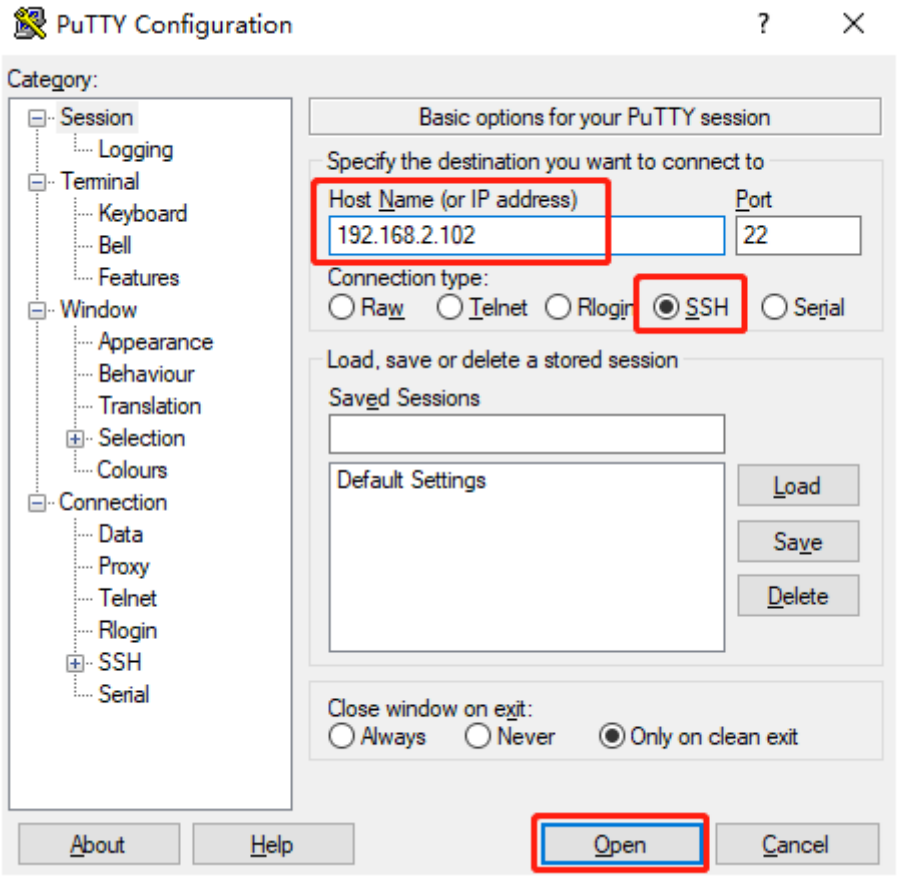
https://www.chiark.greenend.org.uk/~sgtatham/putty/



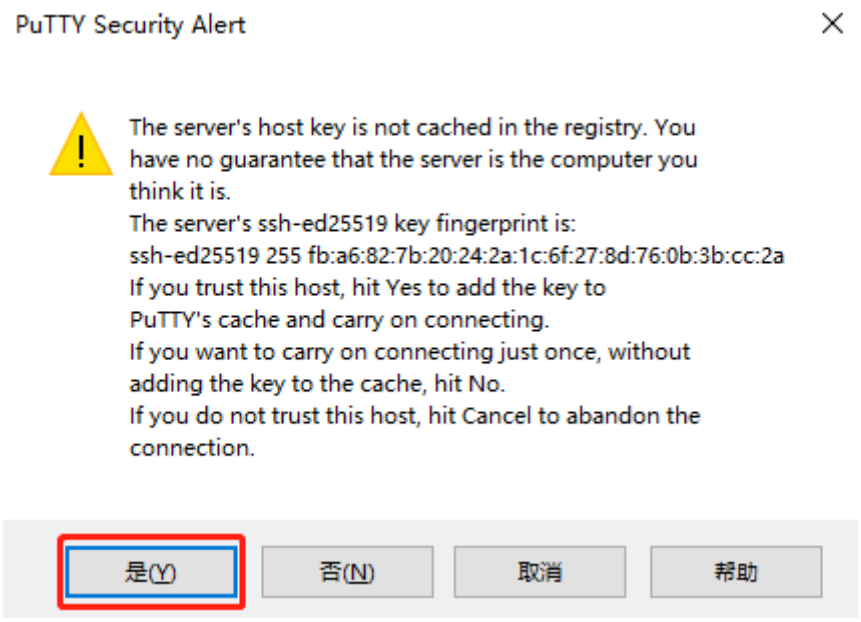

2. Install directly after downloading

## 4. Remote login to Raspberry Pi by Putty

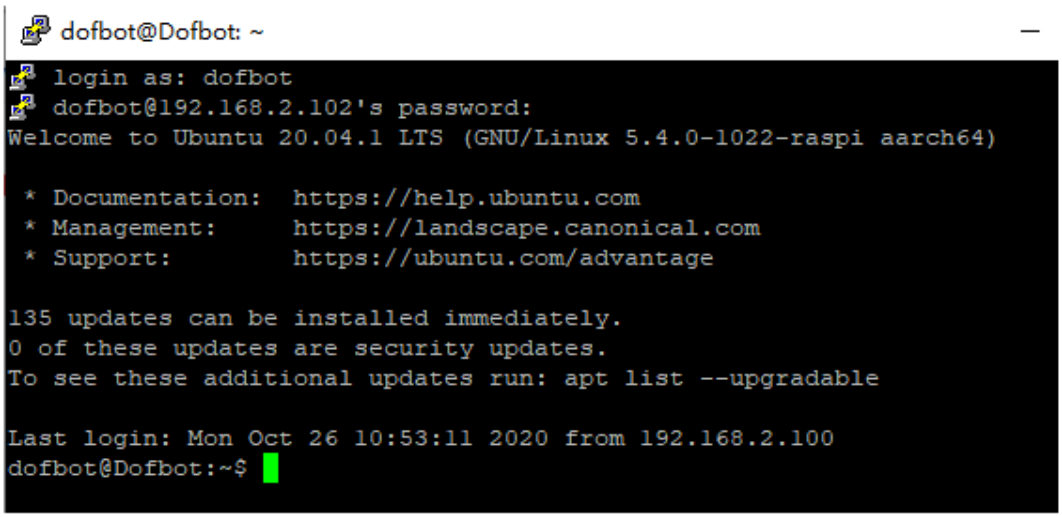
1.Open Putty on the computer, select the SSH connection method, and fill in the IP address of the Raspberry Pi you just found in the Host Name column.




2. The system prompts, select "Yes"




3. Input your username and password and press Enter.
   Note: The password will not be displayed


dofbot@Dofbot: ~
login as: dofbot
dofbot@192.168.2.102's password:
Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-1022-raspi aarch64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
135 updates can be installed immediately.
0 of these updates are security updates.
To see these additional updates run: apt list --upgradable
Last login: Mon Oct 26 10:53:11 2020 from 192.168.2.100
dofbot@Dofbot:~$