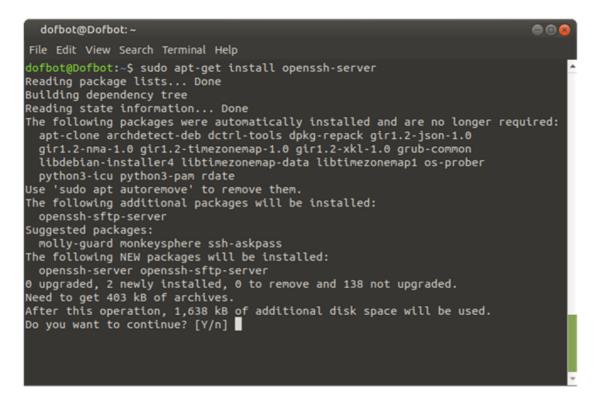
8. Remote SSH login to Raspberry Pi

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
```

```
dofbot@Dofbot:~$ sudo service ssh restart
dofbot@Dofbot:~$ sudo systemctl enable ssh
Synchronizing state of ssh.service with SysV service script with /lib/systemd/sy
stemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable ssh
dofbot@Dofbot:~$
```

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/

PuTTY: a free SSH and Telnet client

Home | FAQ | Feedback | Licence | Updates | Mirrors | Keys | Links | Team Download: Stable - Snapshot | Docs | Changes | Wishlist

PuTTY is a free implementation of SSH and Telnet for Windows and Unix platforms, along with an xterm terminal emulator. It is written and maintained primarily by Simon Tatham.

The latest version is 0.74 Download it here.

LEGAL WARNING: Use of Putty, PSCP, PSFTP and Plink is illegal in countries where encryption is outlawed. We believe it is legal to use Putty, PSCP, PSFTP and Plink in England and Wales and in many other countries, but we are not lawyers, and so if in doubt you should seek legal advice before downloading it. You may find useful information at cryptolaw.org, which collects information on cryptography laws in many countries, but we can't vouch for its correctness.

Use of the Telnet-only binary (PuTTYtel) is unrestricted by any cryptography laws.

Latest news

2020-06-27 PuTTY 0.74 released

PuTTY 0.74, released today, is a bug-fix and security release. It fixes bugs in 0.73, including one possible vulnerability, and also adds a new configuration option to mitigate a minor information leak in SSH host key policy.

Package files

You probably want one of these. They include versions of all the PuTTY utilities.

(Not sure whether you want the 32-bit or the 64-bit version? Read the FAQ entry.)

MSI ('Windows Installer')

 32-bit:
 putty=0.74-installer.msi
 (or by FTP)
 (signature)

 64-bit:
 putty=64bit=0.74-installer.msi
 (or by FTP)
 (signature)

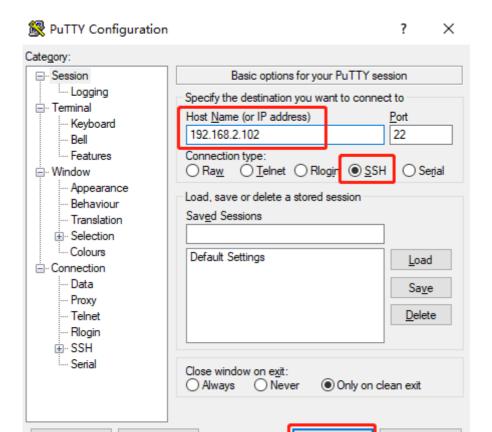
Unix source archive

. tar. gz: putty-0.74. tar. gz (or by FTP) (signature)

2. Install directly after downloading

4. Remote login to Raspberry Pi by Putty

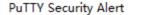
1.Open Putty on the computer, select the SSH connection method, and fill in the IP address of the Raspberry Pi you just found in the Host Name column.



2. The system prompts, select "Yes"

<u>H</u>elp

<u>A</u>bout



 \times

Cancel

Open



The server's host key is not cached in the registry. You have no guarantee that the server is the computer you think it is.

The server's ssh-ed25519 key fingerprint is: ssh-ed25519 255 fb:a6:82:7b:20:24:2a:1c:6f:27:8d:76:0b:3b:cc:2a If you trust this host, hit Yes to add the key to PuTTY's cache and carry on connecting. If you want to carry on connecting just once, without adding the key to the cache, hit No. If you do not trust this host, hit Cancel to abandon the connection.



3. Input your username and password and press Enter.

Note: The password will not be displayed

💤 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. O 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:~\$