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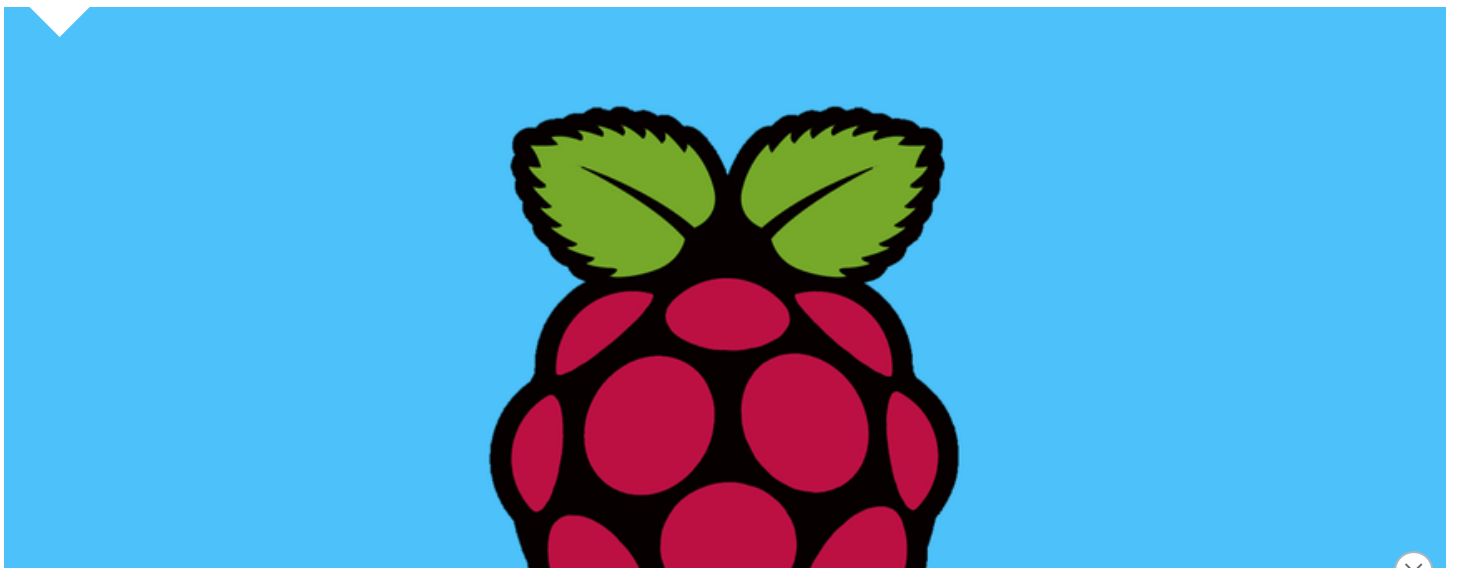Favorite

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How to Connect to a Raspberry Pi Remotely via SSH

The preferred (and most common) method of connecting to your Pi to run commands.

John (304) 📅 Feb 26, 2021 🕐 2 minutes

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This guide will show you how to connect to your Raspberry Pi remotely via SSH from your laptop or desktop computer.

How to SSH into Raspberry Pi

SSH (Secure SHell) is the best method of connecting to your Raspberry Pi. Therefore, this is the method we'll be using to log in.

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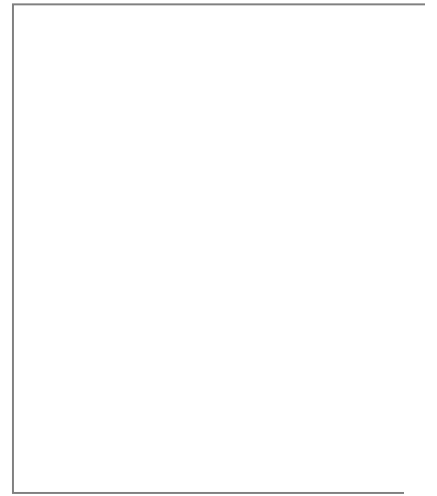
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1 Open a command line

[Connect your Pi to your WiFi](#) (or wired) network. Then, open a new command line:

How to Set up WiFi on Your Raspberry Pi Without a Monitor (Headless)
No monitor, keyboard, or mouse? No problem.

For Mac:

Open **Terminal** by navigating to Applications > Utilities > Terminal.

For Windows 10+:

Open **Command Prompt** by right-clicking the Start button and selecting Command Prompt.

2 Enable SSH

Older versions of Raspberry Pi OS like Raspbian Jessie, Raspbian Stretch, and Raspbian Buster have SSH disabled by default for security reasons. If you're using an up-to-date version of Raspberry Pi OS (as you should!), you'll need to enable SSH on your Raspberry Pi before proceeding.

How to Enable SSH on Raspberry Pi OS Without a Screen
The SSH protocol is disabled by default.

3 Get the username and password

The default username and password for the Raspberry Pi is:

Raspberry Pi Default Username and Password

```
username: pi
password: raspberry
```

Of course, if you've changed the password you'll need to use the updated password.

4 Use the SSH command

The default hostname for the Pi is **raspberrypi**, so in your command line app, enter the following and press enter:

can quickly check whether your Pi uses a certain hostname by pinging it and trying each hostname:

```
ping raspberrypi
```

You can also connect using your Raspberry Pi's IP address:

How to Find Your Raspberry Pi's IP Address

```
ssh pi@192.168.X.X
```

.. where *192.168.X.X* is your Pi's IP address. You can obtain your Pi's IP address using the *ping* command above.

Type the password when you see the password prompt. For security purposes you won't see the password as you type.

You might encounter a host verification warning that ends with something like this:
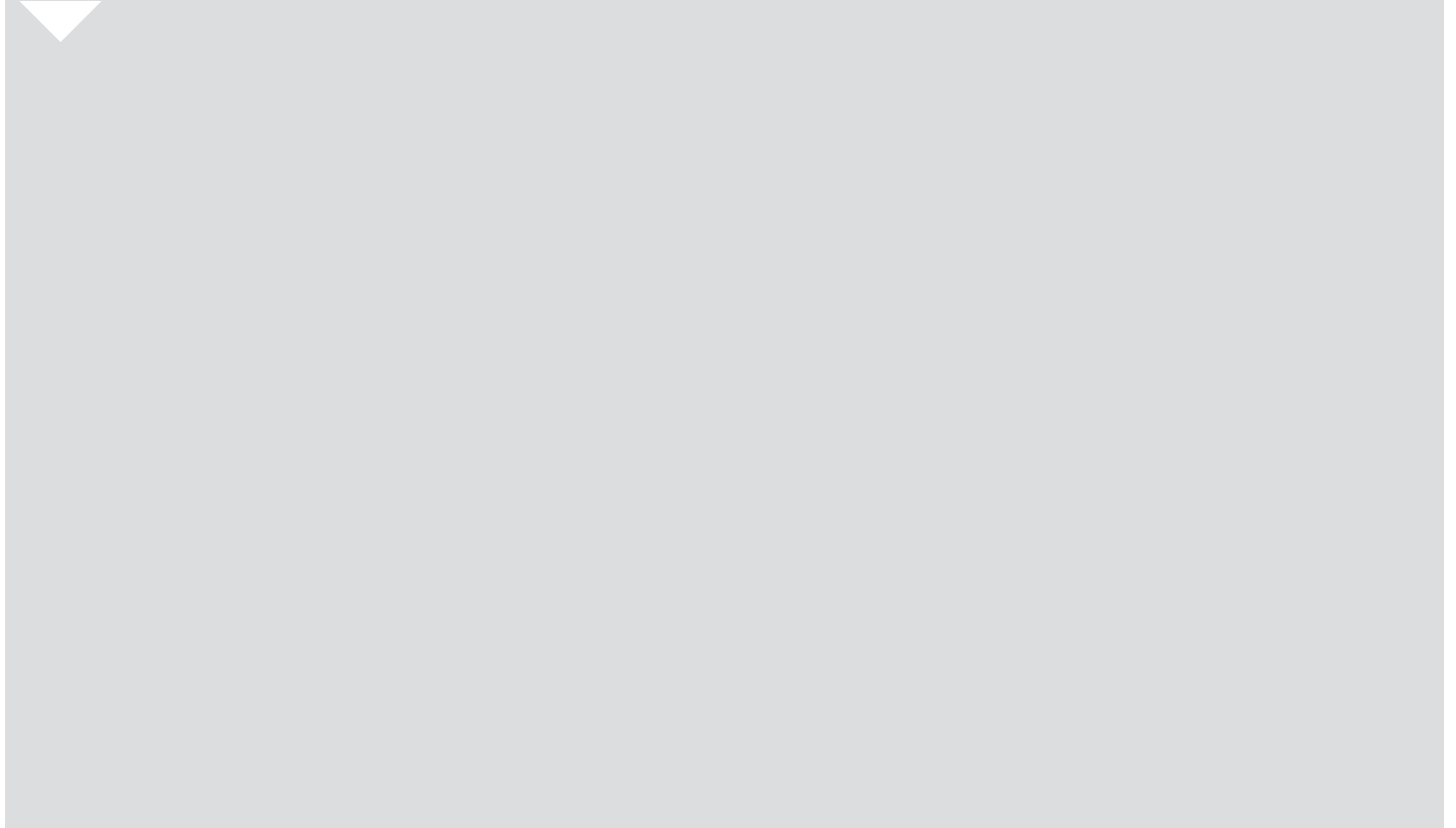
```
The authenticity of host 'abc (abc)' can't be established.
RSA key fingerprint is 3f:1b:f4:bd:c5:aa:c1:1f:bf:4e:2e:cf:53:fa:d8:59.
Are you sure you want to continue connecting (yes/no)?
```

Just type "yes" and hit enter. This is a security measure to let you know you're trying to connect to a host for the first time. After connecting, the host will be added to the known_hosts file, and you won't see this warning again.

> ℹ Make sure your computer is on the same network as your Pi.

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John

Software Engineer and creator of howchoo.

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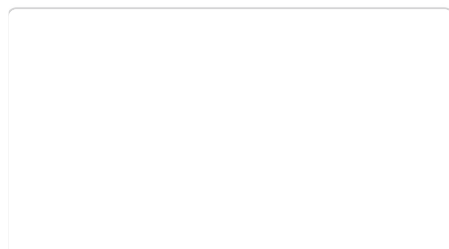
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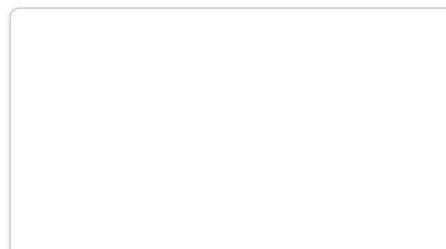
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