

Connecting to your Raspberry Pi with remote.it

Using remote.it, you can access, manage, and update your Raspberry Pi from anywhere in the world. remote.it connects you to your networked devices using HTTP(S), VNC, SSH, or any TCP port. It takes three steps to connect to your Pi with remote.it:

1. Set up your Raspberry Pi.
2. Install remote.it on your Raspberry Pi.
3. Select services to use with your Pi.

Set Up Your Raspberry Pi

Before you start using remote.it, you will need a functioning Raspberry Pi installation. We recommend starting with the [“NOOBS” installation process](#) that can be found on the Raspberry Pi getting started guide.

A more advanced and in-depth NOOBS manual can be found [on GitHub](#).

Plug in your raspberry pi and open the terminal. If you are just getting familiar with the raspberry pi, go [here](#) to set it up, then proceed to steps 2 and 3.

Install remote.it

In Step 1, you:

- Created an account through remot3.it.
- Set up a device.
- Opened terminal on that device.

Now, follow the steps below to install remote.it on your Pi.

1. **Run the command** `sudo apt-get dist-upgrade` to get the latest version of OS.
** If you are using the Wheezy version of Raspbian, or to support other ARM boards using Debian (such as BeagleBone Black and Wandboard), please follow the installation directions [here](#). **
2. **Run the command** `sudo apt-get update` to get the latest repositories.
3. **Run the command** `sudo apt-get install weavedconnectd` to download the remot3.it weavedconnectd package.
4. **Run the command** `sudo weavedinstaller` to launch the installer.

You will then see this menu:

```
***** Sign In Menu *****

1) Sign in to your existing remot3.it account
2) Request a code for a new remot3.it account
3) Enter a verification code received in e-mail
4) Exit

*****

Use your Weaved account with remot3.it!
*****

Please select from the above options (1-4):
```

5. **If you have already created an account**, select option 1, then log in. Note that the password is not displayed as you type it in.

If you have not already created an account, select option 2, then press Enter. Follow the on-screen instructions to input your email. A verification code will be sent to your email. Select option 3 and enter the verification code. This will activate your account, allowing you to add and manage your devices and services!

Installing Services

1. Enter a name for your device.

```
weavedconnectd version 1.3-07v is currently installed.

1.3-07v is the most recent version of pi_installer
.....

Enter a name for your device (e.g. my_Pi_001).

The Device Name identifies your device in the remot3.it portal.
Your services will be grouped under the Device Name.

Only letters, numbers, underscore, space and dash are allowed.

My-Device-01_
```

This is the initial view of the Installed remot3.it Services Menu. It only displays device name.

2. After naming your device, you will see this menu. Select 1 to add a service.

```
===== Installed remot3.it Services =====
Protocol      Port      Service      remot3.it Service Name
-----
SSH           22        sshd         Pi-SSH
-----
Device Name: My-Device-01
=====

***** Main Menu *****

1) Attach/reinstall remot3.it to a Service
2) Remove remot3.it attachment from a Service
3) Remove all remot3.it attachments, then exit
4) Exit

*****

Please select from the above options (1-4):
_
```

3. Select the type of service you are connecting to.

```
***** Protocol Selection Menu *****

1) SSH on port 22
2) Web (HTTP) on port 80
3) VNC on port 5901
4) Custom (TCP)
5) Return to previous menu

*****

You can change the port value during install

*****

Please select from the above options (1-5):
```

We recommend having a remot3.it enabled SSH connection even if your primary use case is something else. That way, you can easily get to a console for troubleshooting if needed.

4. Select 1 at the Protocol Selection Menu to configure an attachment for SSH. Select yes for the default port assignment (the default port is 22 for SSH).

```
Please select from the above options (1-5):
1
You have selected: 1.

The default port for SSH is 22.

Would you like to continue with the default port assignment? [y/n] y
We will attach a remot3.it connection to the following service:

Protocol: ssh
Port #: 22
.....

Enter a name for this remot3.it service (e.g. SSH-Pi).
This name will be shown in your remot3.it Service List.

Only letters, numbers, underscore, space and dash are allowed.

Pi-SSH_
```

5. Enter a custom name for the service. (ex. "SSH"). This name can be anything you want. For example, if your service was HTTP but it pointed to your home automation system's administration page, you could call the service "Admin Dashboard".

6. You've installed your service! Next, you will be returned to the Installed remot3.it Services menu. Now that you've installed your first service, your attachment to the ssh service is shown.

```
===== Installed remot3.it Services =====
Protocol      Port      Service      remot3.it Service Name
-----
SSH           22        sshd         Pi-SSH
-----
Device Name: My-Device-01
=====

***** Main Menu *****

    1) Attach/reinstall remot3.it to a Service
    2) Remove remot3.it attachment from a Service
    3) Remove all remot3.it attachments, then exit
    4) Exit

*****

Please select from the above options (1-4):
_
```

7. To add more services such as a web (HTTP/HTTPS) and/or VNC server, follow the instructions again, but choose your service of preference from the Protocol Selection Menu.
 - a. Note that some services need to be enabled in the operating system to work with remote.it. For example, the default NOOBS installation does not have VNC enabled.