

Installing the remot3.it connectd daemon on 32-bit Ubuntu

First, you will need to determine which version of the OS is installed on your device. Check the expected responses to these 2 commands:

```
$ cat /etc/os-release | grep ID_LIKE
ID_LIKE=debian
```

```
$ uname -m
i686
```

In a console window, download the Debian package from Github:

```
$ wget
```

```
https://github.com/weaved/installer/raw/master/Raspbian%20deb/1.3-08/connectd\_1.3-08e\_i386.deb
```

```
--2017-11-21 17:46:38--
```

```
https://github.com/weaved/installer/raw/master/Raspbian%20deb/1.3-08/connectd_1.3-08e_i386.deb
```

```
Resolving github.com (github.com)... 192.30.253.113, 192.30.253.112
```

```
Connecting to github.com (github.com)|192.30.253.113|:443... connected.
```

```
HTTP request sent, awaiting response... 302 Found
```

```
Location:
```

```
https://raw.githubusercontent.com/weaved/installer/master/Raspbian%20deb/1.3-08/connectd_1.3-08e_i386.deb [following]
```

```
--2017-11-21 17:46:39--
```

```
https://raw.githubusercontent.com/weaved/installer/master/Raspbian%20deb/1.3-08/connectd_1.3-08e_i386.deb
```

```
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 151.101.40.133
```

```
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|151.101.40.133|:443... connected.
```

```
HTTP request sent, awaiting response... 200 OK
```

```
Length: 107702 (105K) [application/octet-stream]
```

```
Saving to: 'connectd_1.3-08e_i386.deb'
```

```
connectd_1.3-08e_i386.deb 100%[=====>]
```

```
105.18K --.-KB/s in 0.1s
```

```
2017-11-21 17:46:39 (1.05 MB/s) - 'connectd_1.3-08e_i386.deb' saved [107702/107702]
```

Install the connectd Debian package:

```
$ sudo dpkg -i connectd_1.3-08e_i386.deb
```

```
Selecting previously unselected package connectd.
```

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(Reading database ... 175531 files and directories currently installed.)
Preparing to unpack connectd_1.3-08e_i386.deb ...
Unpacking connectd (1.3-08e) ...
Setting up connectd (1.3-08e) ...

=====
Run `sudo connectd_installer` to interactively add remot3.it connection services.

=====
you want to add connectd services with minimal interaction:
Edit `/usr/bin/connectd_register` to add account credentials
and definitions of services you wish to install.

Finally, run `sudo connectd_register` to add remot3.it remote connection services.

See additional information and options in the `connectd_register` script.

Run `connectd_weavedinstaller` to configure remot3.it service attachments

Next, run
`sudo connectd_installer`
to launch the interactive installer.

After some initialization info, you will see this menu:

```
remot3.it connection installer Version: v1.3-08 lib_v1.3-08  
Modified: September 28, 2017 (library) November 17, 2017
```

```
Checking your network for compatibility...
```

```
Your network is compatible with remot3.it services.
```

```
***** 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

```
*****
```

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

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If you have not already created an account, select 2 then press Enter. Then follow the on-screen instructions to enter your e-mail. We will send you an e-mail with a verification code that you must enter by selecting 3 from this menu. After that, your account is active and you can add devices and services.

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

You will also need to supply the Developer API Key which can be found under “My Account” at the remot3.it web site after you log in.

^ Developer API

This is your unique Developer API Key to use and access remot3.it APIs. Do not share it with anyone.

Nk [REDACTED] Ez

Next, as there are no services yet installed, you will be asked to enter the Device Name. Valid characters include numbers, letters, space, underscore, and dash.

```
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.  
Ubuntu-32-bit test
```

This is the initial view of the Installed remot3.it Services Menu. All that you have at this point is the Device Name.

Installing the remot3.it connectd daemon on 32-bit Ubuntu

```
===== Installed remot3.it Services =====
Protocol      Port      Service      remot3.it Service Name
-----
Device Name:  Ubuntu-32-bit test
=====

***** 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

*****
Platform:  x86
*****

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

Press 1 to attach remot3.it to one of your services.

Select the type of service you are connecting to. Options 1 through 3 are predefined for the most common use cases. You can choose a different port during installation of options 1 through 3. Select option 4 to configure remot3.it for other use cases.

Installing a remot3.it attachment for SSH

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.

Select 1 at the Protocol Selection Menu to configure an attachment for SSH.

For options 1, 2, and 3, a default port has been chosen. Sometimes this needs to be changed to another value, so you have that option here. Unless you know otherwise, select the default value. After taking a few seconds to create the attachment, you will be asked to enter a name for this service. After you enter the name, a few more seconds passes while it is registered to your account.

Next, you will be returned to the **Installed remot3.it Services** menu. Now your attachment to the ssh service is shown.

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```
===== Installed remot3.it Services =====
Protocol      Port      Service      remot3.it Service Name
-----
SSH           22        dropbear     Ubuntu-VM ssh
-----
Device Name:  Ubuntu-32-bit test
=====

***** 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

*****
Platform:  x86
*****
```

We have successfully installed the remot3.it service connection for SSH. In the "Service" column you will see the name of the tcp listener program (usually called a "server") which was found on the specified port.

Learn more about using remot3.it and SSH [here](#).

Installing a remot3.it attachment for a web (http) server

Choose option 2, "Web (http)" from the Protocol Selection Menu. You will need to install and configure your own web server.

Installing a remot3.it attachment for a VNC server

Choose option 3, "VNC" from the Protocol Selection Menu. Port 5901 is the default used by tightvncserver. It may be different for other VNC programs.

Possible Problems

If you see "WARNING-NONE" in the Services column, it means that no tcp listener was found on that port. This could mean:

- The desired program is not installed. Note that while the connectd installer has options for configuration with VNC and web servers, these programs are not installed by default.
- The program is installed, but it's not running. Check to make sure the program is running and works over the LAN.
- The program is installed and running, but it's on a different port than you have specified. To see all tcp listeners running on your device along with the ports they are using, run the command

```
sudo netstat -apn | grep -w tcp | grep LISTEN
```

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```
$ sudo netstat -apn | grep -w tcp | grep LISTEN
tcp    0    0 0.0.0.0:5901      0.0.0.0:*        LISTEN  25291/Xtightvnc
tcp    0    0 0.0.0.0:80        0.0.0.0:*        LISTEN  23256/nginx -g daem
tcp    0    0 0.0.0.0:6001      0.0.0.0:*        LISTEN  25291/Xtightvnc
tcp    0    0 0.127.0.1:53      0.0.0.0:*        LISTEN  919/dnsmasq
tcp    0    0 0.0.0.0:22        0.0.0.0:*        LISTEN  8307/dropbear
```

An entry such as **0.0.0.0:5901** means "listen on all interfaces for traffic on port 5901". This corresponds above to **11419/Xtightvnc**. This indicates that process ID 11419 is the Xtightvnc server.

The output shown is just one possibility and depends on how you have your device configured.

Once you have configured connectd for all of your tcp services that you wish to connect to remotely, press "4" to exit the connectd_installer program.

Batch mode editor

You can edit the file `/usr/bin/connectd_register` to install connectd services in a batch mode with minimal interaction. To set up the same group of services on several different devices, please see:

<https://remot3it.zendesk.com/hc/en-us/articles/115000151951-Deploying-remot3-it-services-on-multiple-devices>

Disclaimer

The 1.3-08e package is provided for evaluation only and should not be put into production.