# HomeBridge on Windows 10 64 Bit.

1 – Install GIT 2.15.1.2 64BIT: <https://github.com/git-for-windows/git/releases/download/v2.15.1.windows.2/Git-2.15.1.2-64-bit.exe>

* Leave all defaults as-is except selected “use Windows’ default console window” instead of MinTTY when asked.

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2 – Install Visual Studio Community 2017: <https://www.visualstudio.com/products/visual-studio-community-vs>

* Select “Desktop development with C++”, “Nodejs” development and “Python” development.

3 - Install Python 2.7.14 64 BIT: <https://www.python.org/ftp/python/2.7.14/python-2.7.14.amd64.msi>

* Select “Install for all users” and leave default installation directory as: “C:\Python27\”
* \*\* You need this even though “Python development” was selected for Visual Studio 2017!

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4 – Install Open SSL 1.0.2n 64BIT: <https://slproweb.com/download/Win64OpenSSL-1_0_2n.exe> \*\* Do not use the later 1.1 version – it is missing a library file \*\*

* In the “Copy OpenSSL DLLs” dialog box, select “The OpenSSL binaries (/bin) directory”

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5 – Install Nodejs v8.9.3 64BIT: <https://nodejs.org/dist/v8.9.3/node-v8.9.3-x64.msi>

* Leave all the defaults alone when installing.

6 – Install Bonjour for Developers 3.0.0.10 from: <https://developer.apple.com/bonjour/>) then select the “Bonjour SDK for Windows” and then “Bonjour SDK for Windows v3.0” to install.

* You’ll need to sign up for a free Apple developer account.
* Bonjour developer SDK sometimes doesn't set its environment variable correctly, so check its installation following instructions below. This is particularly relevant if you see an error saying like "Cannot open include file: 'dns\_sd.h':" when you try to do the install at [#8](https://github.com/nfarina/homebridge/pull/8), below.

7 – Right-click the Windows MenuBar start icon and choose ”Windows PowerShell (Admin)”, then:

* npm install -g windows-build-tools
* (Be patient - this one takes a while)
* npm install -g homebridge

Common Problems:

1. Bonjour SDK Is missing / Can’t Open Include File “dns\_sd.h”

If you get a “fatal error C1083: Cannot open include fine: ‘dnssd.h’” message when doing step #8, it may be a Bonjour SDK install error. Occasionally, the Bonjour Developer SDK fails to set its environment variable correctly. To check this:

A. From a Windows "cmd" window, enter the command "SET BONJOUR\_SDK\_HOME"

B. Windows should now display the BONJOUR\_SDK\_HOME environment variable showing the path to the BONJOUR developer SDK.

C. Does it match the path to where you have installed Bonjour? Typically, you should see the following (which is where the Bonjour Developer SDK should be installed):  
BONJOUR\_SDK\_HOME=C:\Program Files\Bonjour SDK\

D. If the path points to the "D:" drive or somewhere else, then you need to manually set/fix the environment variable.

E. To set / fix the variable, from the "Control Panel" search for "Environment". Then Click "Edit System Environment Variables"

F. The "System Properties" dialog box will appear with the "Advanced" tab selected. From that dialog, select the "Environmental Variables" button.

G. In the "System variables" section, edit / create the "BONJOUR\_SDK\_HOME" variable and set it to "C:\Program Files\Bonjour SDK"