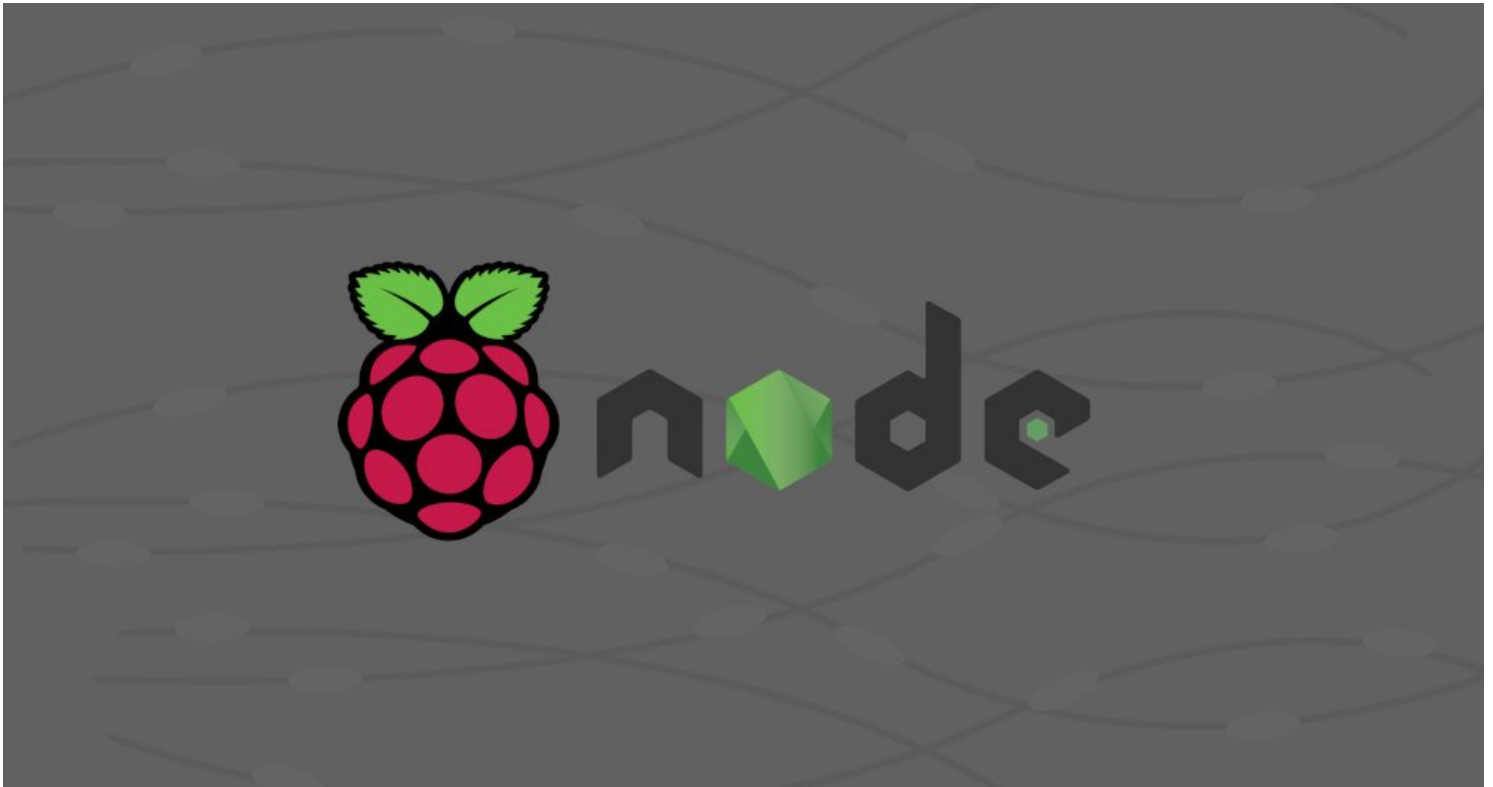# How to Install Node.js and npm on Raspberry Pi

Posted Jun 2, 2019 • 4 min read

Node.js is an open-source cross-platform JavaScript run-time environment built on Chrome's JavaScript engine that allows server-side execution of JavaScript code. It is mainly used to build server-side applications, but it is also very popular as a full-stack and front-end solution. npm is the default package manager for Node.js and the world's largest software registry.

In this tutorial, we will explain how to install Node.js and npm on Raspberry Pi. We're assuming that you have [Raspbian installed on your Raspberry Pi](#).

Install Node.js and npm from the NodeSource Repository

NodeSource is a company focused on providing enterprise-grade Node support. NodeSource maintains an APT repository containing the latest versions of Node.js.

Enable the NodeSource repository by running the following command in your terminal:

```
$ curl -sL https://deb.nodesource.com/setup_10.x | sudo bash -
```

change `setup_10.x` with `setup_8.x`

Once the repository is enabled, install Node.js and npm by typing:

```
$ sudo apt install nodejs
```

To verify the installation, run the following command which will print the Node.js version:

```
$ node --version
```

```
Output
v10.16.0
```

That's it. You have successfully installed Node.js and npm on your Raspberry Pi board.

Install Node.js and NPM using NVM

NVM (Node Version Manager) is a bash script that allows you to install and manage multiple Node.js versions. Use this method if you need to install a specific Node.js version or if you need to have more than one Node.js versions installed on your Raspberry Pi.

To install nvm run the following [curl command](#) which will download and run the nvm installation script:

```
$ curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.34.0/insta
```

the nvm path to your Bash profile.

```
Output
=> Close and reopen your terminal to start using nvm or run the follo

export NVM_DIR="$HOME/.nvm"
[ -s "$NVM_DIR/nvm.sh" ] && \. "$NVM_DIR/nvm.sh"  # This loads nvm
[ -s "$NVM_DIR/bash_completion" ] && \. "$NVM_DIR/bash_completion"  #
```

As the output says, you can either open a new shell session or run those commands that will add the `nvm` path to your current session. Do whatever is easier for you.

To ensure that nvm is properly installed type:

```
$ nvm --version
```

```
Output
0.34.00
```

You can now install the latest available version of Node.js by running:

```
$ nvm install node
```

Verify the installation:

```
$ node --version
```

```
Output
```

To better explain how nvm works we'll install two more versions, the latest LTS version and version 8.9.4.

```
$ nvm install --lts
$ nvm install 8.9.4
```

Once both versions are installed, list the Node.js instances by typing:

```
$ nvm ls
```

```
Output
->          v8.9.4
         v10.16.0
          v12.3.1
default -> node (-> v12.3.1)
node -> stable (-> v12.3.1) (default)
stable -> 12.3 (-> v12.3.1) (default)
iojs -> N/A (default)
unstable -> N/A (default)
lts/* -> lts/dubnium (-> v10.16.0)
lts/argon -> v4.9.1 (-> N/A)
lts/boron -> v6.17.1 (-> N/A)
lts/carbon -> v8.16.0 (-> N/A)
lts/dubnium -> v10.16.0
```

current shell session and the default version is set to `v12.3.1`.

The default version is the version that will be used when you open new shell sessions.

To change the currently active version to `v10.16.0` use the following command:

```
$ nvm use 10.16.0
```

and verify it by typing:

```
$ nvm current
```

```
Output
v10.16.0
```

If you want to set version `10.16.0` as the default Node.js version type:

```
$ nvm alias default 10.16.0
```

Install development tools

To be able to compile and install native add-ons from the npm registry you need to install the development tools:

```
$ sudo apt install build-essential
```

Uninstall Node.js

If for some reasons you want to uninstall Node.js package, you can use the following command:

```
$ sudo apt remove nodejs
```

We have shown you two different ways to install Node.js and npm on your Raspberry Pi board. The method you choose depends on your requirements and preferences. Even though installing the packaged version from the NodeSource repository is easier, the nvm method gives you more flexibility for adding and removing different Node.js versions on a per-user basis.

Now that you've installed Node.js on your Raspberry Pi system, you can start developing your application.

If you have any questions or feedback, feel free to comment below.

nodejs　　　　npm　　　　nvm　　　　raspberry pi

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