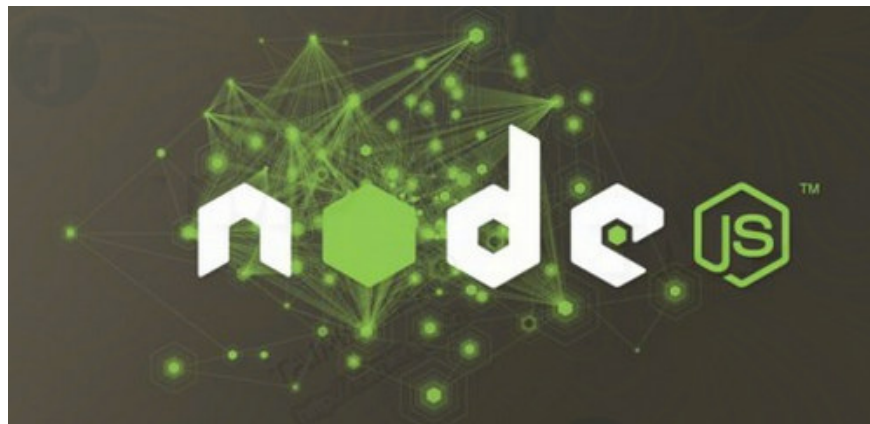


# Node. What is js? Download Node js for computers and laptops

Node.js is a platform running on the V8 JavaScript runtime environment, built into Chrome. It provides non-blocking I/O and Asynchronous Event to build scalable server-side applications using JavaScript. To learn more about what Node.js is? and get the free Node js download link, readers can refer to TipsMake's article below.

Node.js can be used to build different types of applications such as command line applications, web applications, real-time chat applications, REST API servers, etc. However, Node.js is mainly used to build network programs such as web servers, similar to PHP, Java or ASP.NET. In the article, Taimienphi will share a lot of useful information about Node.js and the **Node js Download** link, invite you to follow along.



Node js Download - Install nodejs for PC, laptop

## 1. What is Node.js?

Node.js is a cross-platform open source runtime environment for JavaScript, used to execute web applications outside of the client's browser. Node.js was written and introduced by Ryan Dahl in 2009 and stands out by the following features:

- Node.js is an open source server framework.
- Node.js is free.
- Node.js runs on many different platforms (including Windows, Linux, Unix, Mac OS X, .).
- Node.js uses JavaScript on the server. **Download Java** here

## 2. What is Node.js file?

- Node.js files contain tasks that will be executed on specific events.
- A typical event example is if someone tries to access a port on the server.
- Node.js files must be initialized on the server before being applied.
- Node.js files have the extension ".js".

### 3. Operating principle of Node.js

Node.js is a server-side development platform based on JavaScript. When a network request comes from a client, Node.js operates according to the following principles:

- Node.js creates an event loop to monitor incoming and outgoing network requests.
- When a network request comes in, Node.js creates a worker thread to handle that request.
- In the worker thread, Node.js performs request processing tasks, such as accessing the database, reading/writing files, interacting with APIs, and many other tasks.
- When the worker thread has completed processing, Node.js returns the results to the client via the network.
- If a new network request arrives, Node.js creates a new worker thread to handle that request.

Node.js handles incoming and outgoing network requests using callbacks, Promises, async/await functions to ensure asynchrony and optimize application performance. Network requests are processed independently, preventing "blocking" during request processing. Node.js is also capable of working with other modules and libraries to aid in web application development.

### 4. How to install Node.js on Windows

First, download **Node.js** - Software for managing and organizing network applications. Link **Node.js** Download for free here:

Follow the steps below to install Node.js on your Windows computer:

*Step 1* : Click Install to install the .msi.

*Step 2*: Run the installer and follow the instructions to install NPM (node package manager) and Node.js.

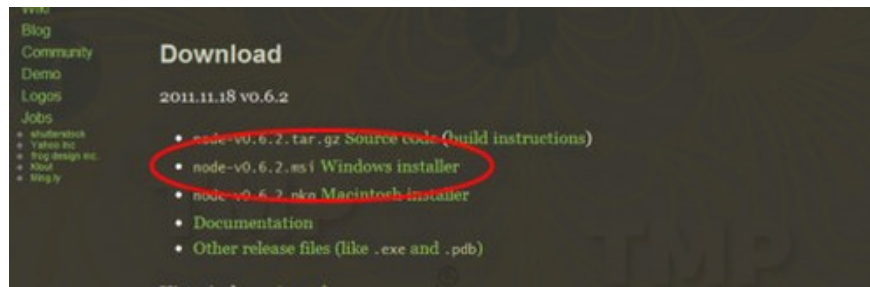
*Step 3*: Reset your computer so that everything works on the command line interface (CLI).

*Install Node.js on Windows computer*

The steps to install Node.js on a Windows computer are quite simple. Just visit the Node.js homepage to download the installation package and run it.

*Download the node.msi installer for Windows*

Visit the Node.js homepage to download the Windows .msi installation file. This is all you need to set everything up.



### *Run the node.msi installer*

Run Node's .msi file from anywhere on your computer. The installation window will appear on the screen. All you need to do is click Agree and then click OK. If the Node.js installation process fails, you can rerun the file and select Repair to fix the error.



### *Node js Download Reset the computer*

This is a step that many users often forget. After installing the .msi file, remember to reset your computer. Otherwise your computer will prevent you from using Node in Command Prompt.



### *Run Node.js tests on Windows*

Even though Node.js is installed, it doesn't mean it's working properly. The next step below TipsMake will guide you how to create a test file to run Node.js.

### *Create test file*

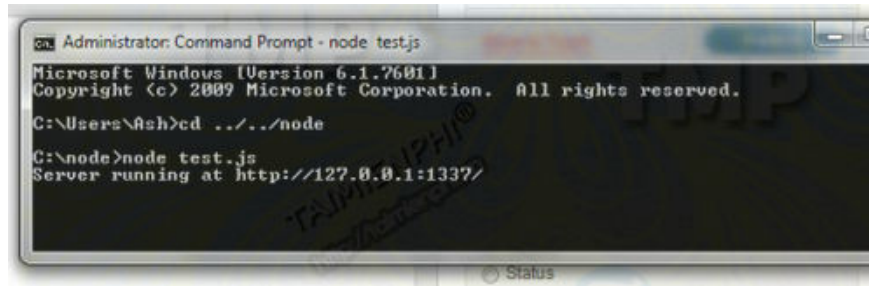
To ensure Node.js works properly on Windows computers, try creating a simple Hello World script file using the code above. Name the file test.js and store it in a safe location, such as **C:nodetest.js** so you can access the file more easily through Windows Command Prompt. If you save the file in another location, remember to change the path.

### *Run Windows Command Prompt*

test.js: Code example from <http://nodejs.org> home page.

```
1
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var http = require('http');
http.createServer(function (req, res) {
res.writeHead(200, {'Content-Type': 'text/plain'});
res.end('Hello World');
}).listen(1337, " 127.0.0.1");
console.log('Server running at http://127.0.0.1:1337/');
```

Launch Command Prompt and navigate to the test.js section (Refer to how to **run Command Prompt** here). Run the command **node test.js** to have Windows activate the file and display a notification.

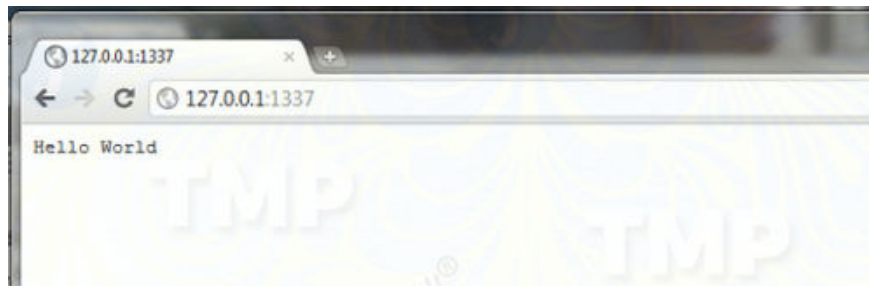


```
Administrator: Command Prompt - node test.js
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Ash>cd ../../node
C:\node>node test.js
Server running at http://127.0.0.1:1337/
```

### *Check Node.js installation on Windows*

If you pay attention, you will see that when you run `node test.js`, the screen will display a message similar to the server running on **http://127.0.0.1:1337/** . To test whether node works correctly when exiting a Command Prompt running in the background, simply copy and paste `http://127.0.0.1:1337` into the browser address bar. The screen will display a message as shown in the illustration below.



Hopefully after this article you will understand what **Node.js** is, know the **Node js Download** link as well as how to install Node.js on Windows. If you have any questions or concerns, leave your comments in the comments section below the article!

You finished reading the article "**Node. What is js? Download Node js for computers and laptops**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.