

Murdoch University

# CourseLoop - Callista Parser

## Node.js Installation Manual

ICT302 IT Professional Practice Project,  
Team (10) Black Widow

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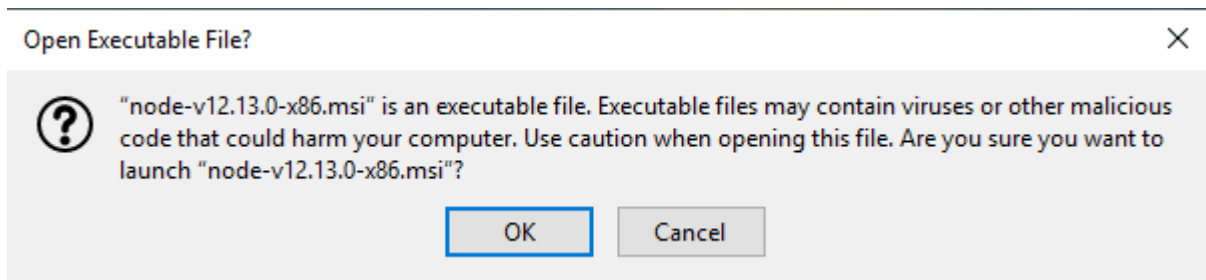
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## Windows Installation

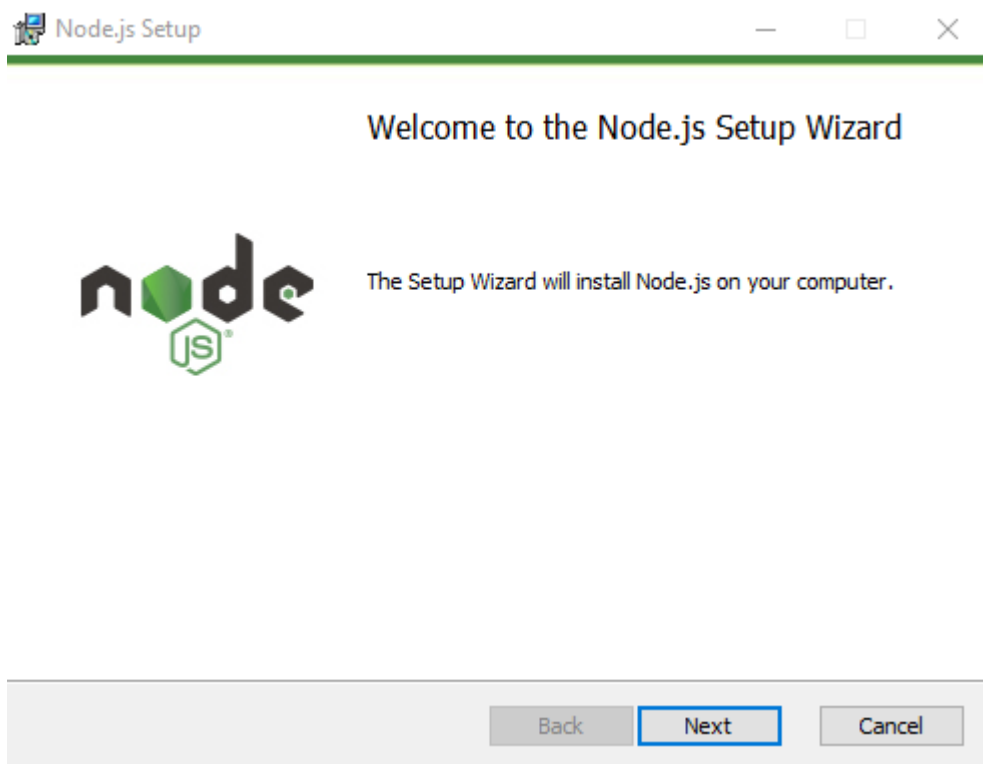
one installation needed to run this software solution is **Node.js**, which should be installed on any computer or server where the software is going to run. The following is a step by step of the installation process in a computer with a Windows 10 platform.

### Node.js Installation Process:

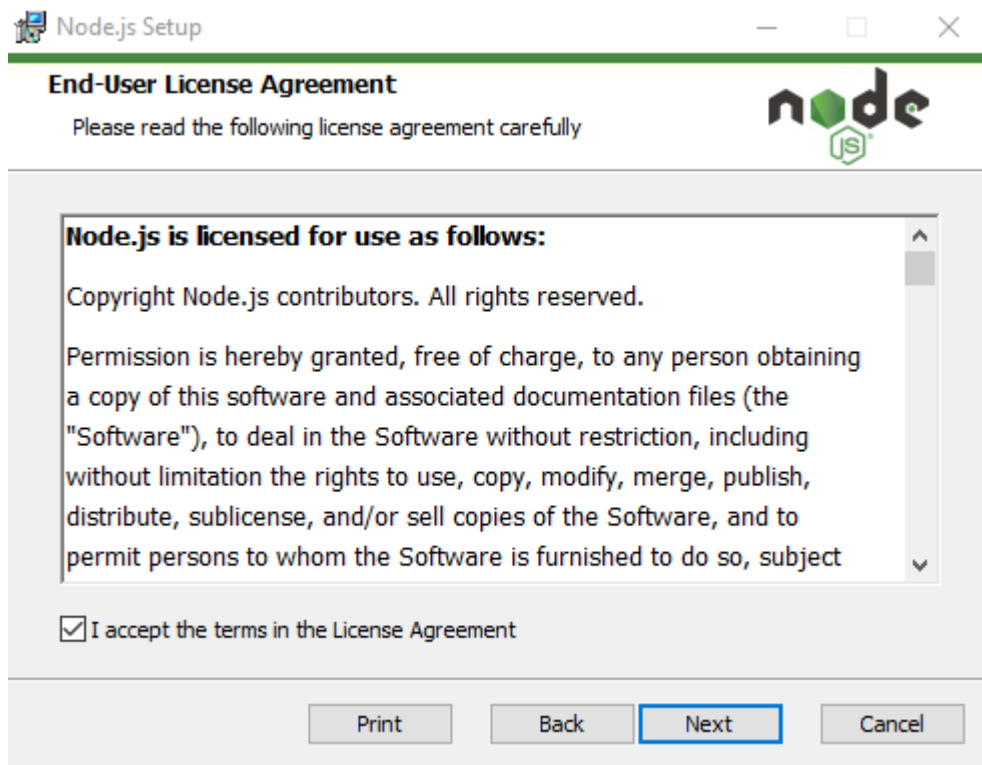
1. Once the package is executed, the following window will appear. Click “OK”.



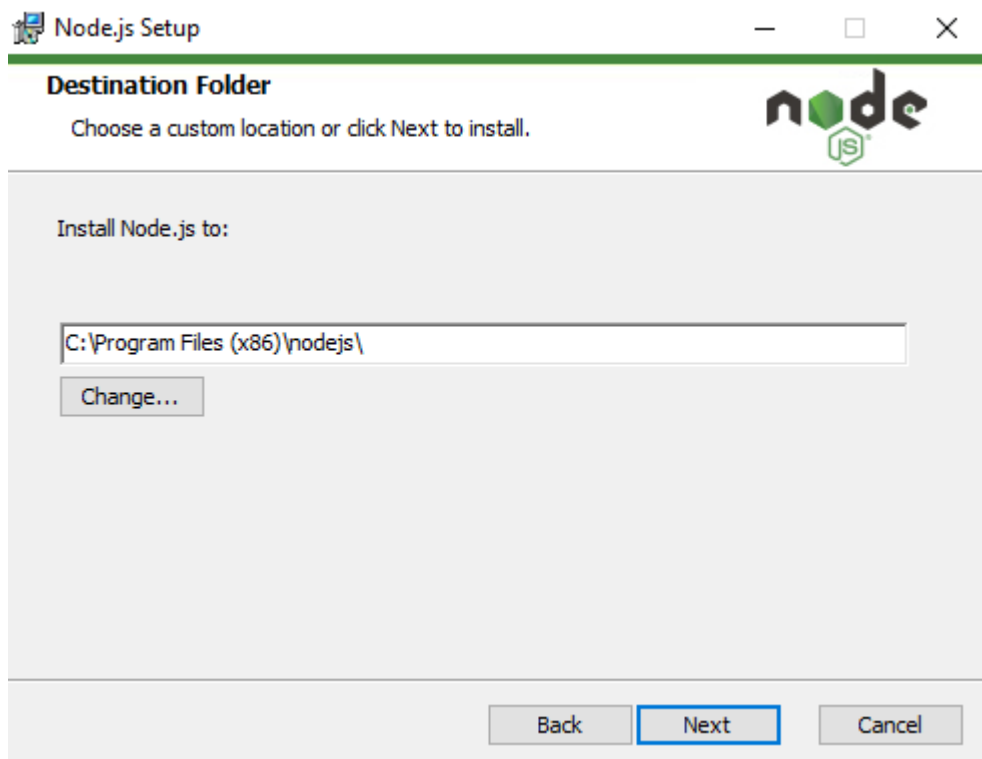
2. After clicking “OK”, the Node.js Setup Wizard will begin. Click “Next”.



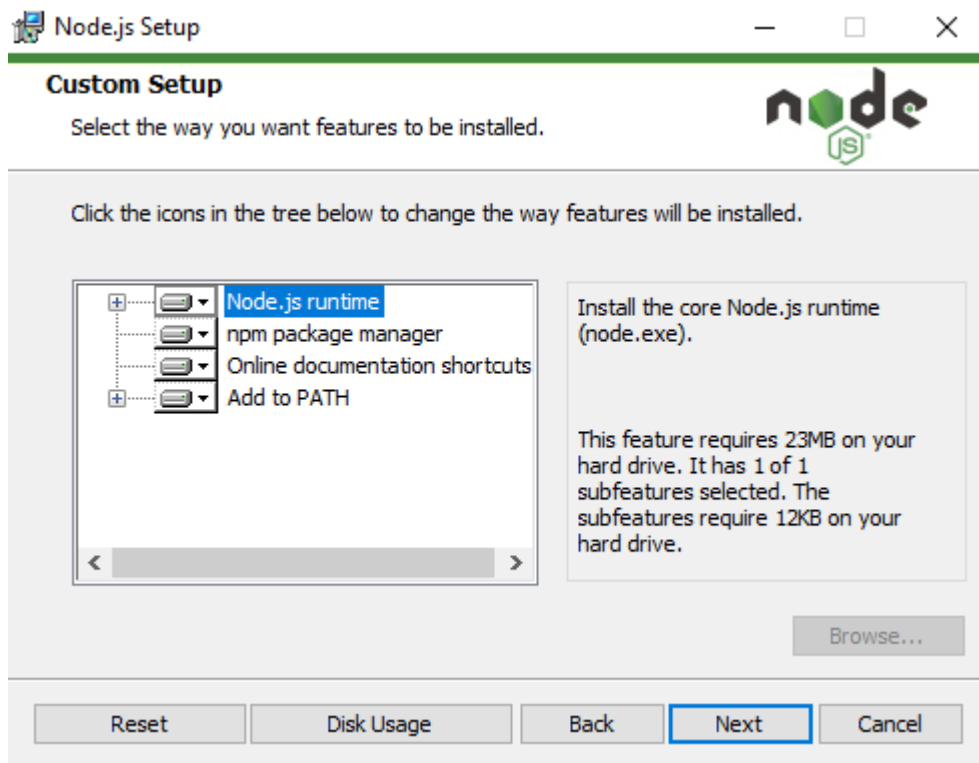
3. In the following screen, tick the box to accept the License Agreement and click then “Next”



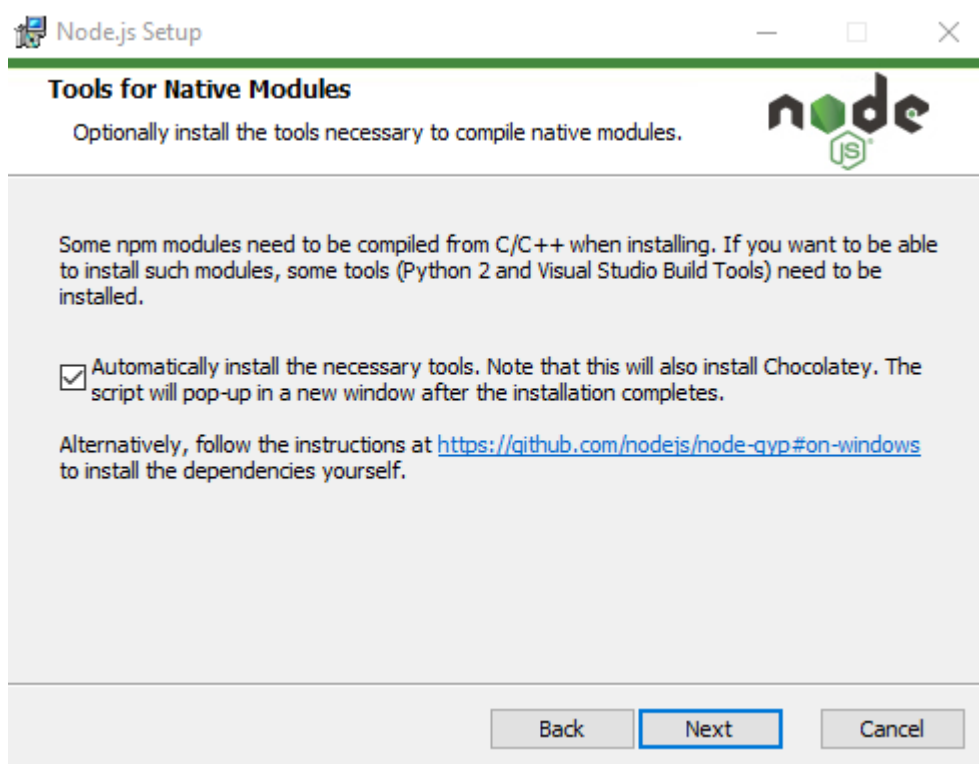
4. The next screen will ask the user for a path to install the software. The one on the screenshot is the one chosen by default but if the user wants the software installed in any other path, should click on “Change” and select a different path. Once this has been done, click “Next”.



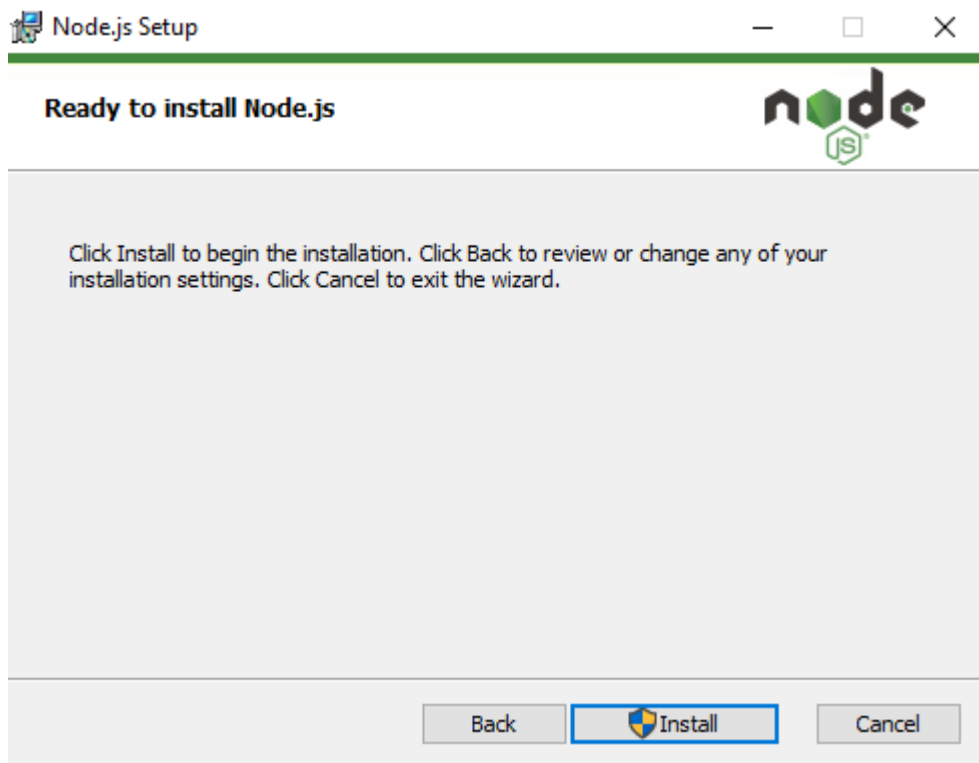
5. The following screen will ask the user to select the features to install with Node.js. The default installation is enough to run the software solution so nothing needs to be changed or selected here. Just click “Next”:



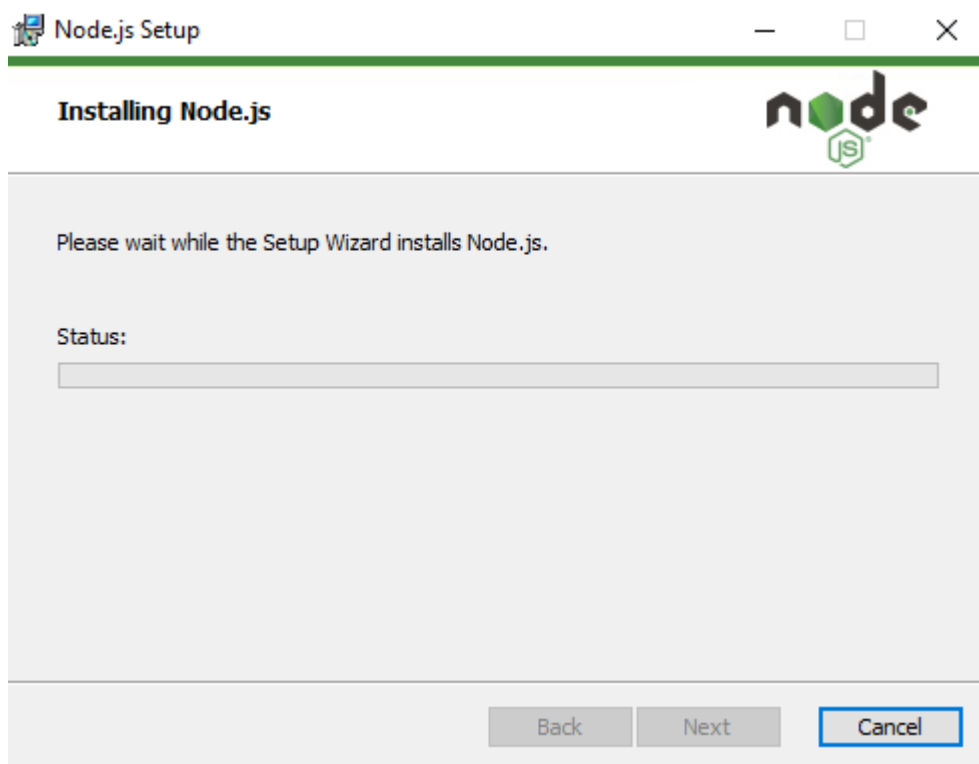
6. In the following screen, tick the box so the installer will download and install all the required software. The installation of the extra software will begin once the Node.js installation finishes. A script will pop up on the user’s screen. This process will be explained further below on this guide. In this step, click “Next”.

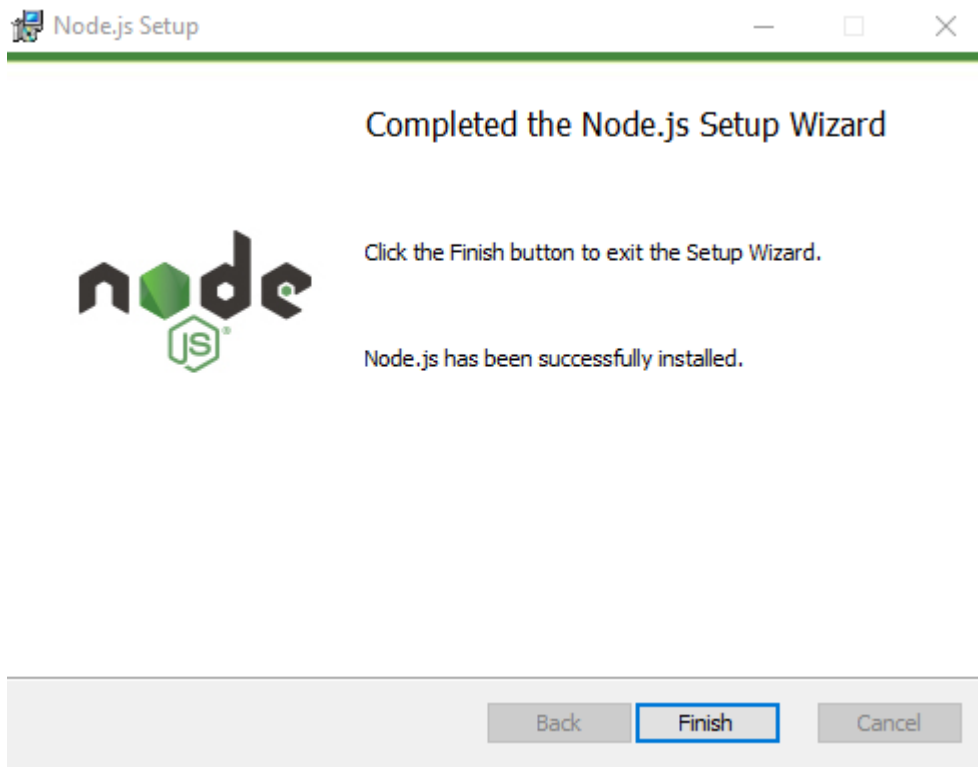


7. The final screen will ask the user to click on “Install”, “Back” to change installation settings or “Cancel”. If all is OK for the user, click on “Install”. Otherwise, go back to change settings or cancel the installation wizard.

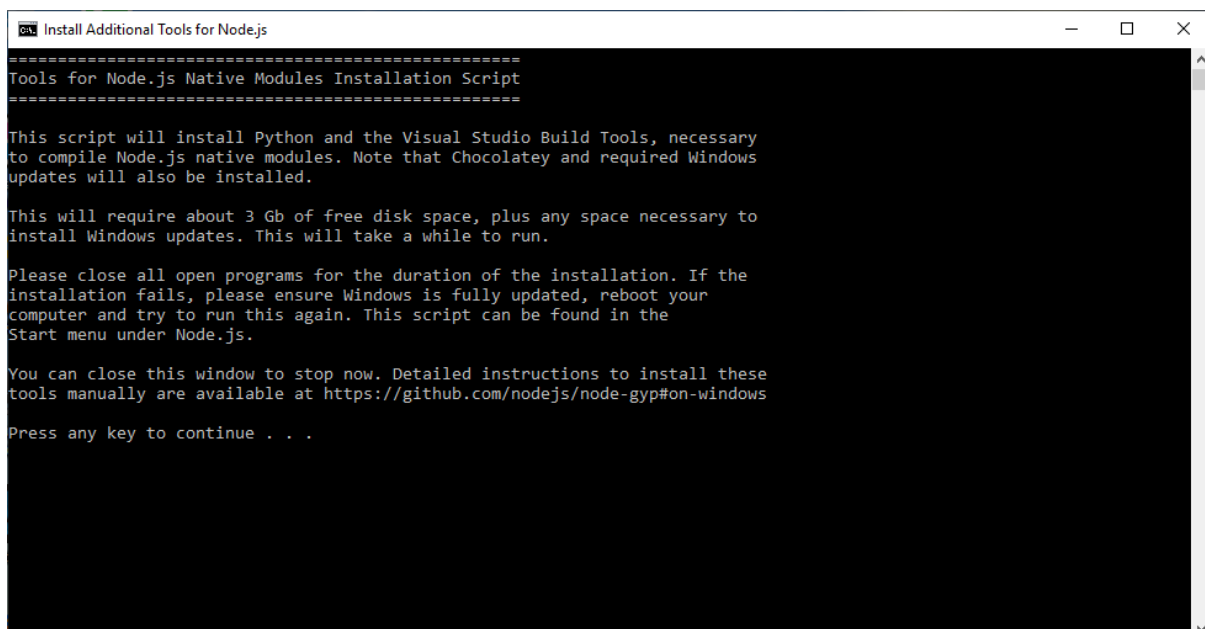


8. The wizard will then begin to install the components needed. Once it has been completely installed, this screen will appear. Be aware also that Administrator privileges will be needed in order to install Node.js

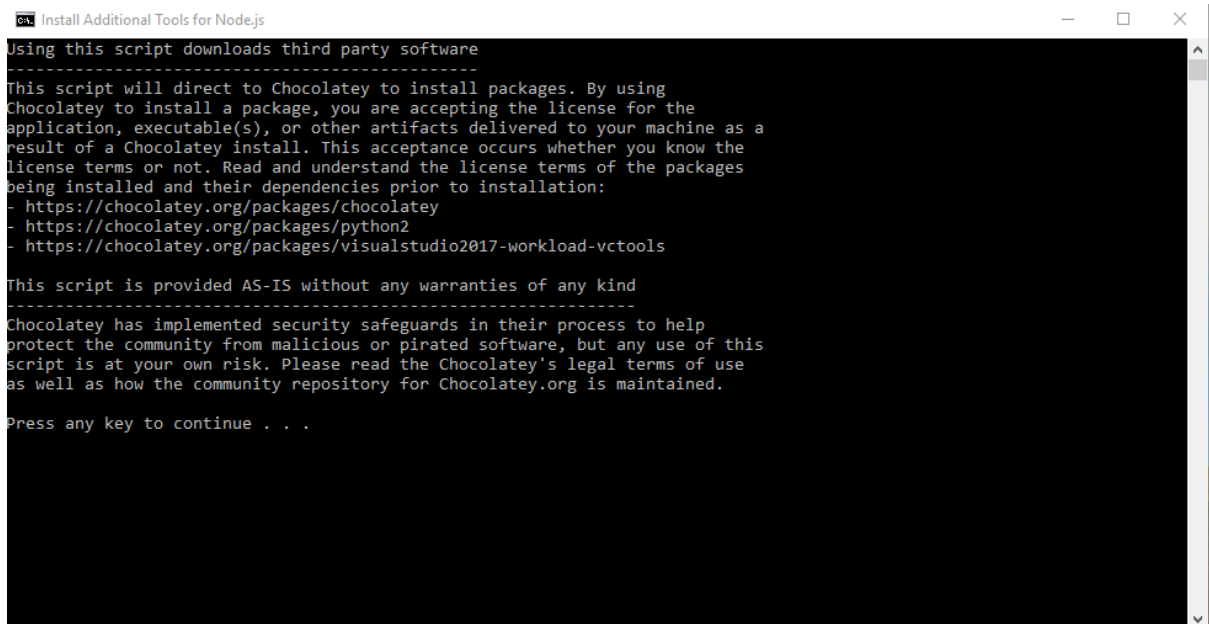




9. Once the standard installation has been done, a script will pop up on the user's screen. Press any key to let it begin:



10. A second script screen will be shown. Press any key to continue:

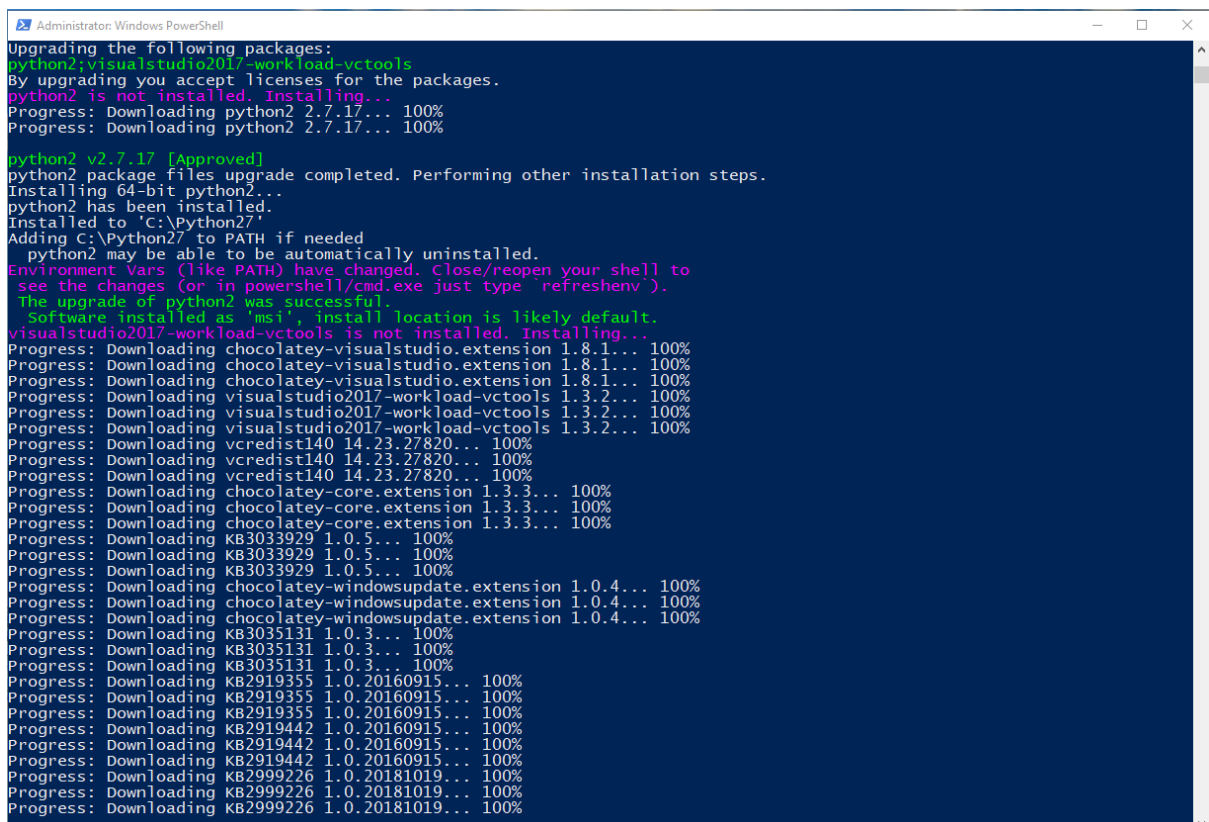


```
Install Additional Tools for Node.js

Using this script downloads third party software
-----
This script will direct to Chocolatey to install packages. By using
Chocolatey to install a package, you are accepting the license for the
application, executable(s), or other artifacts delivered to your machine as a
result of a Chocolatey install. This acceptance occurs whether you know the
license terms or not. Read and understand the license terms of the packages
being installed and their dependencies prior to installation:
- https://chocolatey.org/packages/chocolatey
- https://chocolatey.org/packages/python2
- https://chocolatey.org/packages/visualstudio2017-workload-vctools
-----
This script is provided AS-IS without any warranties of any kind
-----
Chocolatey has implemented security safeguards in their process to help
protect the community from malicious or pirated software, but any use of this
script is at your own risk. Please read the Chocolatey's legal terms of use
as well as how the community repository for Chocolatey.org is maintained.

Press any key to continue . . .
```

11. After it, a Windows PowerShell window will pop up and the download of extra software and tools will begin:



```
Administrator: Windows PowerShell

Upgrading the following packages:
python2;visualstudio2017-workload-vctools
By upgrading you accept licenses for the packages.
python2 is not installed. Installing...
Progress: Downloading python2 2.7.17... 100%
Progress: Downloading python2 2.7.17... 100%

python2 v2.7.17 [Approved]
python2 package files upgrade completed. Performing other installation steps.
Installing 64-bit python2...
python2 has been installed.
Installed to 'C:\Python27'
Adding C:\Python27 to PATH if needed
python2 may be able to be automatically uninstalled.
Environment Vars (like PATH) have changed. Close/reopen your shell to
see the changes (or in powershell/cmd.exe just type 'refreshenv').
The upgrade of python2 was successful.
Software installed as 'msi', install location is likely default.
visualstudio2017-workload-vctools is not installed. Installing...
Progress: Downloading chocolatey-visualstudio.extension 1.8.1... 100%
Progress: Downloading chocolatey-visualstudio.extension 1.8.1... 100%
Progress: Downloading chocolatey-visualstudio.extension 1.8.1... 100%
Progress: Downloading visualstudio2017-workload-vctools 1.3.2... 100%
Progress: Downloading visualstudio2017-workload-vctools 1.3.2... 100%
Progress: Downloading visualstudio2017-workload-vctools 1.3.2... 100%
Progress: Downloading vccredist140 14.23.27820... 100%
Progress: Downloading vccredist140 14.23.27820... 100%
Progress: Downloading vccredist140 14.23.27820... 100%
Progress: Downloading chocolatey-core.extension 1.3.3... 100%
Progress: Downloading chocolatey-core.extension 1.3.3... 100%
Progress: Downloading chocolatey-core.extension 1.3.3... 100%
Progress: Downloading KB3033929 1.0.5... 100%
Progress: Downloading KB3033929 1.0.5... 100%
Progress: Downloading KB3033929 1.0.5... 100%
Progress: Downloading chocolatey-windowsupdate.extension 1.0.4... 100%
Progress: Downloading chocolatey-windowsupdate.extension 1.0.4... 100%
Progress: Downloading chocolatey-windowsupdate.extension 1.0.4... 100%
Progress: Downloading KB3035131 1.0.3... 100%
Progress: Downloading KB3035131 1.0.3... 100%
Progress: Downloading KB3035131 1.0.3... 100%
Progress: Downloading KB2919355 1.0.20160915... 100%
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Progress: Downloading KB2999226 1.0.20181019... 100%
Progress: Downloading KB2999226 1.0.20181019... 100%
Progress: Downloading KB2999226 1.0.20181019... 100%
```

12. After all the software has been downloaded and installed, the user just needs to press any key to finish the process.



## Frequently Asked Questions (FAQs)

### **Can I use the system on a mobile device such as a smartphone or tablet?**

- The software solution has not been implemented to be used in mobile devices such as phones as it needs to run in an environment with Node JS installed.

### **How long does it take to install the system?**

- The installation of Node.js can take between 30 and 45 minutes for Windows (Windows 10), depending on the amount of extra software which needs to be installed along with Node.js and the computing power of the device. Once Node.js and the additional programs are installed, our software solution can be used straight away.

### **Do I need any technical background to install or operate the system?**

- Some technical background may be required for the installation of Node.js and the complementary software. Other than that, no further technical knowledge will be needed.

### **How much does the system cost?**

- The system cost depends on whether or not the University decides to host the web server in to its domain or host it outside.

# Linux Installation

## 1. Add the Node.js PPA

\$ sudo apt-get install curl

```
quique@quique-virtual-machine:~$ sudo apt-get install curl
[sudo] password for quique:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libcurl3-gnutls
The following NEW packages will be installed:
  curl
The following packages will be upgraded:
  libcurl3-gnutls
1 upgraded, 1 newly installed, 0 to remove and 651 not upgraded.
Need to get 323 kB of archives.
After this operation, 342 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us.archive.ubuntu.com/ubuntu xenial-updates/main amd64 libcurl3-gnutls amd64 7.47.0-1ubuntu2.14 [184 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu xenial-updates/main amd64 curl amd64 7.47.0-1ubuntu2.14 [139 kB]
Fetched 323 kB in 3s (100 kB/s)
(Reading database ... 174367 files and directories currently installed.)
Preparing to unpack .../libcurl3-gnutls_7.47.0-1ubuntu2.14_amd64.deb ...
Unpacking libcurl3-gnutls:amd64 (7.47.0-1ubuntu2.14) over (7.47.0-1ubuntu2.2) ...
Selecting previously unselected package curl.
Preparing to unpack .../curl_7.47.0-1ubuntu2.14_amd64.deb ...
Unpacking curl (7.47.0-1ubuntu2.14) ...
Processing triggers for libc-bin (2.23-0ubuntu5) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up libcurl3-gnutls:amd64 (7.47.0-1ubuntu2.14) ...
Setting up curl (7.47.0-1ubuntu2.14) ...
Processing triggers for libc-bin (2.23-0ubuntu5) ...
quique@quique-virtual-machine:~$
```

\$ curl -sL https://deb.nodesource.com/setup\_12.x | sudo -E bash -

```
quique@quique-virtual-machine:~$ curl -sL https://deb.nodesource.com/setup_12.x | sudo -E bash -

## Installing the NodeSource Node.js 12.x repo...

## Populating apt-get cache...

+ apt-get update
Hit:1 http://us.archive.ubuntu.com/ubuntu xenial InRelease
Get:2 http://us.archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]
Get:3 http://security.ubuntu.com/ubuntu xenial-security InRelease [109 kB]
Get:4 http://us.archive.ubuntu.com/ubuntu xenial-backports InRelease [107 kB]
Fetched 325 kB in 4s (71.3 kB/s)
Reading package lists... Done

## Confirming "xenial" is supported...

+ curl -sLf -o /dev/null 'https://deb.nodesource.com/node_12.x/dists/xenial/Release'

## Adding the NodeSource signing key to your keyring...

+ curl -s https://deb.nodesource.com/gpgkey/nodesource.gpg.key | apt-key add -
OK

## Creating apt sources list file for the NodeSource Node.js 12.x repo...

+ echo 'deb https://deb.nodesource.com/node_12.x xenial main' > /etc/apt/sources.list.d/nodesource.list
+ echo 'deb-src https://deb.nodesource.com/node_12.x xenial main' >> /etc/apt/sources.list.d/nodesource.list

## Running `apt-get update` for you...

+ apt-get update
Get:1 https://deb.nodesource.com/node_12.x xenial InRelease [4,584 B]
Get:2 https://deb.nodesource.com/node_12.x xenial/main amd64 Packages [765 B]
Hit:3 http://us.archive.ubuntu.com/ubuntu xenial InRelease
Get:4 http://security.ubuntu.com/ubuntu xenial-security InRelease [109 kB]
Get:5 http://us.archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]
Get:6 http://us.archive.ubuntu.com/ubuntu xenial-backports InRelease [107 kB]
Fetched 331 kB in 3s (95.4 kB/s)
Reading package lists... Done

## Run `sudo apt-get install -y nodejs` to install Node.js 12.x and npm
## You may also need development tools to build native addons:
   sudo apt-get install gcc g++ make
## To install the Yarn package manager, run:
   curl -sL https://dl.yarnpkg.com/debian/pubkey.gpg | sudo apt-key add -
   echo "deb https://dl.yarnpkg.com/debian/ stable main" | sudo tee /etc/apt/sources.list.d/yarn.list
   sudo apt-get update && sudo apt-get install yarn

quique@quique-virtual-machine:~$
```

## 2. Install Node.js

\$ sudo apt-get install nodejs

```
quique@quique-virtual-machine:~$ sudo apt-get install nodejs
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  nodejs
0 upgraded, 1 newly installed, 0 to remove and 651 not upgraded.
Need to get 17.2 MB of archives.
After this operation, 83.1 MB of additional disk space will be used.
Get:1 https://deb.nodesource.com/node_12.x xenial/main amd64 nodejs amd64 12.13.0-1nodesource1 [17.2 MB]
Fetched 17.2 MB in 3s (4,451 kB/s)
Selecting previously unselected package nodejs.
(Reading database ... 174374 files and directories currently installed.)
Preparing to unpack .../nodejs_12.13.0-1nodesource1_amd64.deb ...
Unpacking nodejs (12.13.0-1nodesource1) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up nodejs (12.13.0-1nodesource1) ...
quique@quique-virtual-machine:~$
```

### 3. Check Node.js and NPM version

```
quique@quique-virtual-machine:~$ node -v
v12.13.0
quique@quique-virtual-machine:~$ npm -v
6.12.0
```

## Frequently Asked Questions (FAQs)

### Can I use the system on a mobile device such as a smartphone or tablet?

- The software solution has not been implemented to be used in mobile devices such as phones as it needs to run in an environment with Node JS installed.

### How long does it take to install the system?

- The installation of Node.js will take about 5 minutes through the terminal.

### Do I need any technical background to install or operate the system?

- It will be needed some technical background and knowledge about Linux and the terminal commands. Nevertheless, all the commands needed are included in this manual.

### How much does the system cost?

- That will depend if the University decides to host the web server into its domain or host it outside.