

Installing Angular and Verifying a Compatible Version of Node is Installed

Checking Node.js Version and Installing a Specific Version, if necessary

0. Open a terminal session.

1. **Determine current version of node.js installed on your computer:** `node -v`

Expected output: `v##.##.##`

If the number after the `v` is an **even number**, you are good to go. **Skip down near the end of these instructions to install Angular.**

If the number after the `v` is an **odd number**, you must **uninstall the current version of nodejs and install an even numbered version to use Angular.**

We will be removing all installations of **node** and **npm** before reinstalling them. They may be stored in two locations on your machine, your `/usr/local/bin` folder and the `root/bin` folder. We will remove them from both locations:

To uninstall the current version of **node.js** and **npm** from typical locations:

1. `sudo rm -rf /usr/local/bin/npm` - remove npm from the root usr/local/bin folder
2. `sudo rm -rf /usr/local/bin/node` - remove node from the root usr/local/bin folder
3. `cd ~` - go to the Home directory
4. `cd ../../` - go to the root directory of the drive
5. `cd bin` - change to the bin directory
6. `sudo rm -rf npm` - remove npm from the root bin folder
7. `sudo rm -rf node` - remove node from the root bin folder
8. Exit the terminal session
9. Start a new terminal session
10. Check to be sure node.js is removed: `node -v`

(this should result with a message saying node is not installed

If it still shows a node version, close the Practice Lab and re-enter it,

Then do the `node -v` command again, if it stills display a version, contact your instructor)

Proceed with the rest of these steps.

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We will be using a tool called **cURL** to install a specific, even numbered, version of **node.js** as required by Angular.

Client URL (cURL) lets you exchange data between your device and a server through a command-line interface (CLI).

2. Determine if **curl** is installed on your computer: **curl -V**

Expected output should look something like this

(your version may be different than the one shown (7.68.0) this is OK):

```
curl 7.68.0 (x86_64-pc-linux-gnu) libcurl/7.68.0
OpenSSL/1.1.1fzlib/1.2.11
brotli/1.0.7 libidn2/2.2.0 libpsl/0.21.0 (+libidn2/2.2.0)
libssh/0.9.3/openssl/zlib nghttp2/1.40.0 librtmp/2.3
Release-Date: 2020-01-08
Protocols: dict file ftp ftps gopher http https imap imaps ldap ldaps
```

2a. If you do not see that **curl** is installed, install it: **sudo apt install curl**

When the installation is done, repeat step 2 to be sure **curl** is installed.

3. Use **curl** to download a specific version of **node.js**:

```
curl -fsSL https://deb.nodesource.com/setup_20.x | sudo -E bash -
```

-fsSL limits the messaging from curl

https://deb.nodesource.com/setup_20.x is the URL of the file to retrieve

| (pipe) sends the output from the a command to another command & executes the other command.

In this case we are sending the bash script created by curl to a bash environment, to be executed to effect the download of the file specified by the URL

(https://deb.nodesource.com/setup_20.x)

-E tells **sudo** to send the current bash environment to the new bash environment being initiated so the new environment knows everything this one does.

bash - starts a new bash shell environment

- tells bash to use the standard input device (keyboard), which it will do anyhow.

Expected output:

There will be a multitude of messages generated. Some might indicate an error has occurred. What is important is that you see the following at the end of the messages:

```
2024-02-28 17:48:23 - Repository configured successfully. To install
Node.js, run: apt-get install nodejs -y
```

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- #### 4. Install the file downloaded from the `curl` command (the version of node.js we want):

```
sudo apt-get install nodejs -y
```

- 5. Close the terminal window to destroy the current environment.**

- 6. Open a new terminal window in order to create a new environment.**

7. Verify the expected version of node.js was installed: `node -v`

Expected output: **v20.11.1** (your last two numbers may not be **11.1**, that's OK)

You are now ready to install Angular:

1. Unassign any existing command assigned to ng: **sudo apt purge ng-common ng-latin**
2. Install Angular: **sudo npm install -g @angular/cli**
3. Verify Angular has been installed: **ng version**

Expected output should look something like this. If you are asked a question, it doesn't matter to Angular how you answer (Y or N). Your version numbers may be different, its OK:

[illegible]

```
Angular CLI: 17.1.1
Node: 20.11.0
Package Manager: npm 10.2.1
OS: win32 x64
```

Angular:
...

Package	Version
@angular-devkit/architect	0.1701.1 (cli-only)
@angular-devkit/core	17.1.1 (cli-only)
@angular-devkit/schematics	17.1.1 (cli-only)
@schematics/angular	17.1.1 (cli-only)

Congratulations! You have successfully installed Angular!