	Desarrollo Web	Sección A
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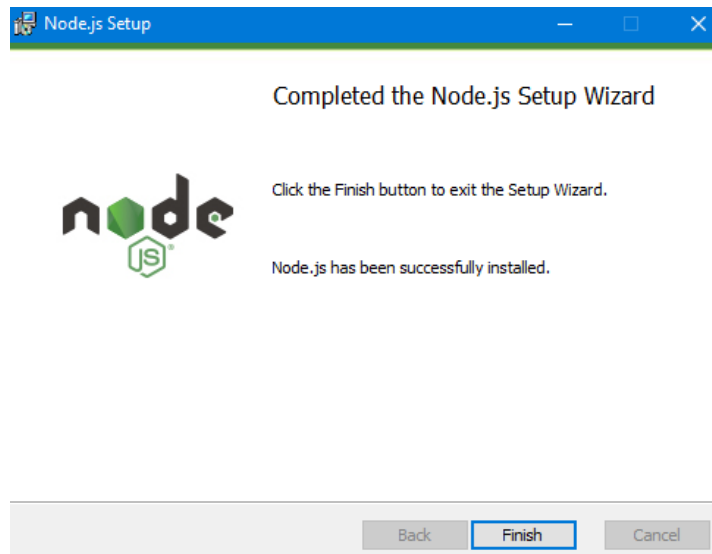
## Laboratorio 10 – Angular

### 1. Descargar NodeJS



The screenshot shows the Node.js website homepage. At the top is the Node.js logo and a navigation bar with links: INICIO, ACERCA, DESCARGAS, DOCUMENTACIÓN, PARTICIPA, SEGURIDAD, NOTICIAS, and FUNDACIÓN. Below the navigation bar, a text block states: "Node.js® es un entorno de ejecución para JavaScript construido con el motor de JavaScript V8 de Chrome." Underneath, there are two green buttons for downloading: "12.13.0 LTS" (Recommended for the majority) and "13.0.1 Actual" (Latest features). Below these buttons are links for "Otras Descargas", "Cambios", and "Documentación del API". A link "Ó revise la Agenda de LTS." is also present. At the bottom, there is a download icon and the filename "node-v12.13.0-x64.msi".

### 2. Instalar NodeJS



The screenshot shows the "Node.js Setup" window. The title bar says "Node.js Setup". The main text reads: "Completed the Node.js Setup Wizard". Below this is the Node.js logo and the instruction: "Click the Finish button to exit the Setup Wizard." Another line of text states: "Node.js has been successfully installed." At the bottom of the window, there are three buttons: "Back", "Finish" (highlighted with a blue border), and "Cancel".

### 3. Configuración

#### a. Inicio

```
=====  
Tools for Node.js Native Modules Installation Script  
=====
```

This script will install Python and the Visual Studio Build Tools, necessary to compile Node.js native modules. Note that Chocolatey and required Windows updates will also be installed.

This will require about 3 Gb of free disk space, plus any space necessary to install Windows updates. This will take a while to run.

Please close all open programs for the duration of the installation. If the installation fails, please ensure Windows is fully updated, reboot your computer and try to run this again. This script can be found in the Start menu under Node.js.

You can close this window to stop now. Detailed instructions to install these tools manually are available at <https://github.com/nodejs/node-gyp#on-windows>

Presione una tecla para continuar . . .

#### b. Instalación de actualizaciones

```
Administrador: Windows PowerShell
```

Getting latest version of the Chocolatey package for download.  
Getting Chocolatey from <https://chocolatey.org/api/v2/package/chocolatey/0.10.15>.  
Downloading 7-Zip commandline tool prior to extraction.  
Extracting C:\Users\UMG-1.LAB\AppData\Local\Temp\chocolatey\chocInstall\chocolatey.zip to C:\Users\UMG-1.LAB\AppData\Local\Temp\chocolatey\chocInstall...

Installing chocolatey on this machine  
Creating ChocolateyInstall as an environment variable (targeting 'Machine')  
Setting ChocolateyInstall to 'C:\ProgramData\chocolatey'  
WARNING: It's very likely you will need to close and reopen your shell before you can use choco.  
Restricting write permissions to Administrators  
We are setting up the Chocolatey package repository.  
The packages themselves go to 'C:\ProgramData\chocolatey\lib' (i.e. C:\ProgramData\chocolatey\lib\yourPackageName).  
A shim file for the command line goes to 'C:\ProgramData\chocolatey\bin' and points to an executable in 'C:\ProgramData\chocolatey\lib\yourPackageName'.

Creating Chocolatey folders if they do not already exist.

WARNING: You can safely ignore errors related to missing log files when upgrading from a version of Chocolatey less than 0.9.9.  
'Batch file could not be found' is also safe to ignore.  
'The system cannot find the file specified' - also safe.  
chocolatey.nupkg file not installed in lib.  
Attempting to locate it from bootstrapper.  
PATH environment variable does not have C:\ProgramData\chocolatey\bin in it. Adding...  
ADVERTENCIA: Not setting tab completion: Profile file does not exist at 'C:\Users\Umg.LABGT\Documents\WindowsPowerShell\Microsoft.PowerShell\_profile.ps1'.  
Chocolatey (choco.exe) is now ready.  
You can call choco from anywhere, command line or powershell by typing choco.  
Run choco /? for a list of functions.  
You may need to shut down and restart powershell and/or consoles first prior to using choco.  
Ensuring chocolatey commands are on the path  
Ensuring chocolatey.nupkg is in the lib folder  
Chocolatey v0.10.15  
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... 45%

#### c. Actualizar NPM

```
npm  
Windows PowerShell  
Copyright (C) Microsoft Corporation. Todos los derechos reservados.
```

PS C:\Windows\system32> npm install -g npm@latest  
[.....] / loadRequestedDeps: sill loadAllDepsIntoIdealTree

d. Borrar cache de NPM

```
Administrador: Windows PowerShell
PS C:\Windows\system32> npm cache clean --force
npm WARN I sure hope you know what you are doing.
PS C:\Windows\system32>
```

e. Desactivar las auditorias de NPM para evitar fallos

```
Administrador: Windows PowerShell
PS C:\Windows\system32> npm set audit false
PS C:\Windows\system32>
```

f. Desinstalar los paquetes anteriores de Angular CLI

```
Administrador: Windows PowerShell
PS C:\Windows\system32> npm uninstall -g angular-cli
up to date in 0.02s
PS C:\Windows\system32> npm uninstall -g @angular/cli
up to date in 0.02s
PS C:\Windows\system32>
```

g. Borrar la cache de NPM de nuevo

```
Administrador: Windows PowerShell
PS C:\Windows\system32> npm cache clean --force
npm WARN I sure hope you know what you are doing.
PS C:\Windows\system32>
```

h. Instalar la última versión de Angular CLI para instalar Angular 7

```
Administrador: Windows PowerShell
PS C:\Windows\system32> npm install -g @angular/cli@latest
C:\Users\umg.LABGT\AppData\Roaming\npm\ng -> C:\Users\umg.LABGT\AppData\Roaming\npm\node_modules\@angular\cli\bin\ng
> @angular/cli@8.3.13 postinstall C:\Users\umg.LABGT\AppData\Roaming\npm\node_modules\@angular\cli
> node ./bin/postinstall/script.js

Would you like to share anonymous usage data with the Angular Team at Google under
Google's Privacy Policy at https://policies.google.com/privacy? For more details and
how to change this setting, see http://angular.io/analytics. No
+ @angular/cli@8.3.13
added 248 packages from 185 contributors in 29.135s
PS C:\Windows\system32>
```

- Ahora ya tenemos instalado y actualizado Angular CLI y ya podemos generar un nuevo proyecto de Angular 7

```
C:\> Seleccionar npm
Microsoft Windows [Versión 10.0.17763.805]
(c) 2018 Microsoft Corporation. Todos los derechos reservados.

C:\Users\umg.LABGT>ng new
? What name would you like to use for the new workspace and initial project? Lab10
```

```
C:\> npm
Microsoft Windows [Versión 10.0.17763.805]
(c) 2018 Microsoft Corporation. Todos los derechos reservados.

C:\Users\umg.LABGT>ng new
? What name would you like to use for the new workspace and initial project? Lab10
? Would you like to add Angular routing? No
? Which stylesheet format would you like to use? (Use arrow keys)
> CSS
  SCSS [ https://sass-lang.com/documentation/syntax#scss ]
  Sass [ https://sass-lang.com/documentation/syntax#the-indented-syntax ]
  Less [ http://lesscss.org ]
  Stylus [ http://stylus-lang.com ]
```

```
C:\Windows\system32\cmd.exe
> core-js@2.6.10 postinstall C:\Users\umg.LABGT\Lab10\node_modules\karma\node_modules\core-js
> node postinstall || echo "ignore"

> @angular/cli@8.3.13 postinstall C:\Users\umg.LABGT\Lab10\node_modules\@angular\cli
> node ./bin/postinstall/script.js

npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.9 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.9: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.9 (node_modules\watchpack\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.9: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.9 (node_modules\karma\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.9: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.9 (node_modules\@angular\compiler-cli\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.9: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.1 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.1: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

added 1189 packages from 1051 contributors in 32.302s
"git" no se reconoce como un comando interno o externo,
programa o archivo por lotes ejecutable.
```

```
C:\Windows\system32\cmd.exe

C:\Users\umg.LABGT>cd Lab10
```

```
ng serve
C:\Users\umg.LABGT\Lab10>ng serve
10% building 3/3 modules 0 active i @wds: Project is running at http://localhost:4200/webpack-dev-server/
i @wds: webpack output is served from /
i @wds: 404s will fallback to //index.html

chunk {main} main.js, main.js.map (main) 47.8 kB [initial] [rendered]
chunk {polyfills} polyfills.js, polyfills.js.map (polyfills) 264 kB [initial] [rendered]
chunk {runtime} runtime.js, runtime.js.map (runtime) 6.15 kB [entry] [rendered]
chunk {styles} styles.js, styles.js.map (styles) 9.7 kB [initial] [rendered]
chunk {vendor} vendor.js, vendor.js.map (vendor) 3.81 MB [initial] [rendered]
Date: 2019-10-23T15:53:53.161Z - Hash: a62fc1167279921b2c7c - Time: 4818ms
** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **
i @wdm: Compiled successfully.
```