



# PRÁCTICA 01- INSTALACIÓN DEL ENTORNO DE DESARROLLO

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# Buscamos e instalamos Node.js

The screenshot shows the official Node.js website. On the left, there's a large banner with the text "Run JavaScript Everywhere". Below it, a paragraph explains that Node.js is a free, open-source, cross-platform JavaScript runtime environment. There are two main calls-to-action: "Get Node.js®" and "Get security support for EOL Node.js versions". On the right, there's a code editor window titled "JavaScript" containing a simple "Hello World" script. Below the code editor, a button says "Copiar al portapapeles" (Copy to clipboard). At the bottom of the page, there's a footer with the text "Node.js is proudly supported by" followed by several icons.

## Lo instalamos

This screenshot shows two windows side-by-side. On the left is the "Node.js Setup" wizard, specifically the "Installing Node.js" step. It displays a progress bar and the message "Please wait while the Setup Wizard installs Node.js." On the right is a "Windows PowerShell" window. The command run is "choco upgrade chocolatey". The output shows a warning about an existing Chocolatey installation and provides steps to handle it. It then proceeds to upgrade Chocolatey, showing progress and success messages like "python314 v3.14.2 [Approved]" and "python314 package upgrade completed".

## Verificamos la instalación

This screenshot shows a "Windows PowerShell" window. The user runs "npm -v" which returns "11.6.2", and then "node -v" which returns "v24.13.0". This indicates that both Node.js and npm are correctly installed and updated.

# Instalación de Angular CLI

```
PS C:\Users\joseg> npm install -g @angular/cli
added 298 packages in 20s

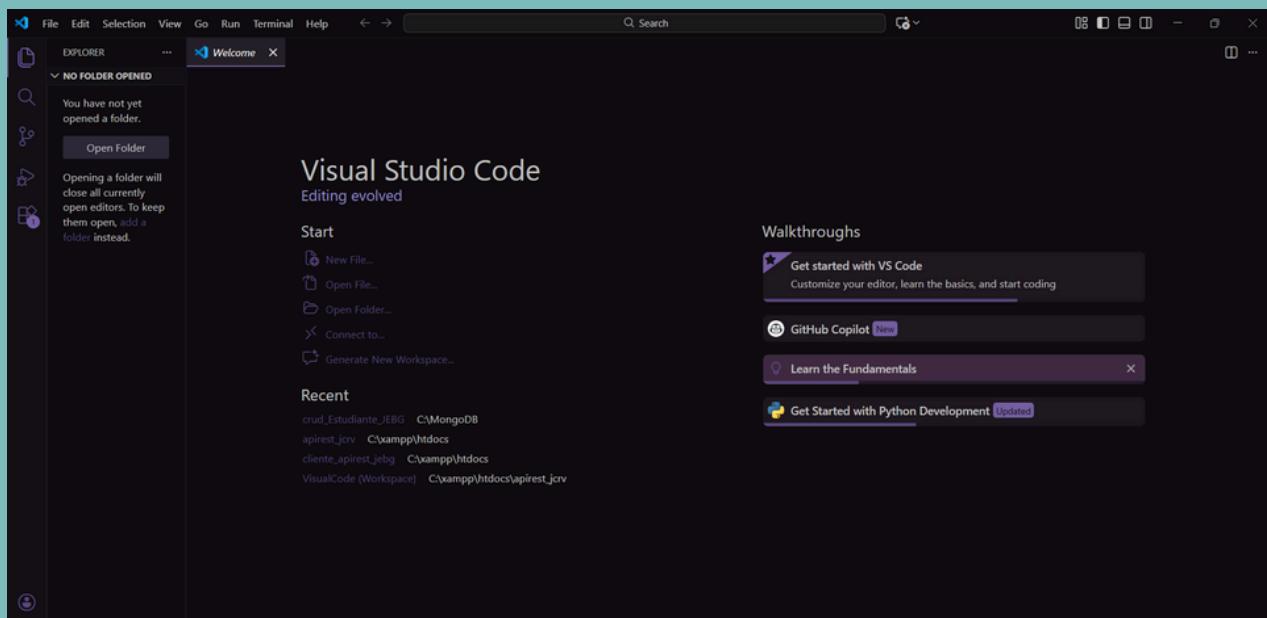
68 packages are looking for funding
  run `npm fund` for details
npm notice
npm notice New minor version of npm available! 11.6.2 -> 11.7.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v11.7.0
npm notice To update run: npm install -g npm@11.7.0
npm notice
PS C:\Users\joseg> ng version
```



```
Angular CLI      : 21.1.0
Node.js          : 24.13.0
Package Manager  : npm 11.6.2
Operating System : win32 x64
```

```
PS C:\Users\joseg> |
```

# Instalación Visual Studio Code



# Extensiones esenciales de VS Code

 Angular Essentials (Version 20)

John Papa | 1,565,103 | ★★★★★ (24)

Essential extensions for Angular developers

Auto Update 

[DETAILS](#) [FEATURES](#) [CHANGELOG](#)

 Prettier - Code formatter

Prettier @ prettier.io | 64,601,504 | ★★★★★ (485) | 

Code formatter using prettier

Auto Update 

[DETAILS](#) [FEATURES](#) [CHANGELOG](#)

Prettier Formatter for Visual Studio Code

 Installation

Identifier: esbenp.prettier-vscode

 ESLint

Microsoft @ microsoft.com | 47,611,570 | ★★★★★ (247)

Integrates ESLint JavaScript into VS Code.

Auto Update 

[DETAILS](#) [FEATURES](#) [CHANGELOG](#)

VS Code ESLint extension

 Azure Pipelines Succeeded

 Installation

Identifier: dbaeumer.vscode-eslint

Version: 3.6.20

Last Updated: 11 hours ago

Size: 668.48KB

 GitLens — Git supercharged

GitKraken @ gitkraken.com | 46,622,032 | ★★★★★ (890)

Supercharge Git within VS Code — Visualize code authorship at a glance via Git blame annotations and CodeLens, seamlessly navigate and explore Git repositories.

Auto Update 

[DETAILS](#) [FEATURES](#) [CHANGELOG](#)

GitLens — Supercharge Git in VS Code

 Installation

Identifier: eamodio.gitlens

Version: 17.9.0

Last Updated: 18 seconds ago

Size: 20.17MB

Cache: 19.82MB

 Material Icon Theme

Philip Kief | 32,401,029 | ★★★★★ (384) | 

Material Design Icons for Visual Studio Code

Auto Update 

[DETAILS](#) [FEATURES](#) [CHANGELOG](#)



 Installation

Identifier: pkief.material-icon-theme

Version: 5.30.0

Last Updated: 11 hours ago

Size: 1.70MB

 Auto Rename Tag

Jun Han | 24,074,438 | ★★★★★ (210)

Auto rename paired HTML/XML tag

Auto Update 

[DETAILS](#) [FEATURES](#) [CHANGELOG](#)

Auto Rename Tag



Automatically rename paired HTML/XML tag, same as Visual Studio IDE does.

Sponsors

 Installation

Identifier: formulahendry/auto-rename-tag

Version: 0.1.10

Last Updated: 6 seconds ago

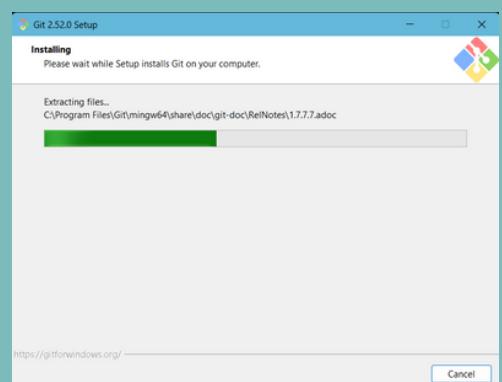
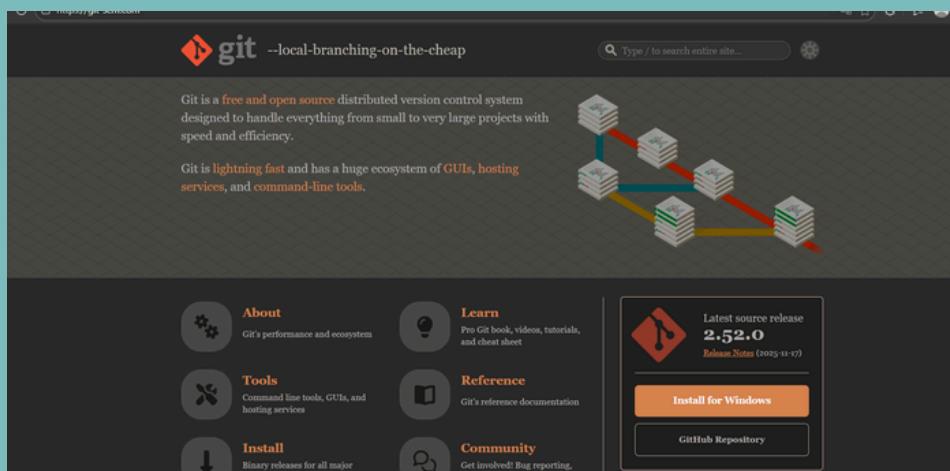
Size: 2.58MB

# Deshabilitar política de seguridad.

```
PS C:\WINDOWS\system32> Set-ExecutionPolicy -ExecutionPolicy RemoteSigned -Scope CurrentUser
>>

Cambio de directiva de ejecución
La directiva de ejecución te ayuda a protegerte de scripts en los que no confías. Si cambias dicha directiva, podrías exponerte a los riesgos de seguridad descritos en el tema de la Ayuda about_Execution_Policies en https://go.microsoft.com/fwlink/?LinkId=135170. ¿Quieres cambiar la directiva de ejecución?
[S] Sí [0] No [T] No a todo [U] Suspender [?] Ayuda (el valor predeterminado es "N"): S
PS C:\WINDOWS\system32>
PS C:\WINDOWS\system32> Get-ExecutionPolicy
RemoteSigned
PS C:\WINDOWS\system32>
```

## Instalación y configuración de Git



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

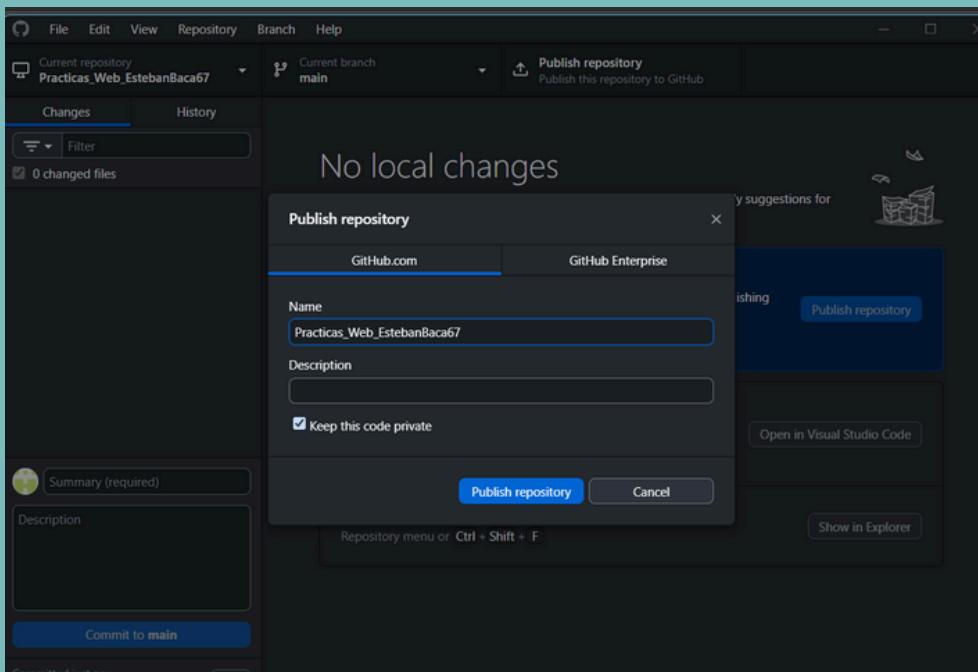
Instale la versión más reciente de PowerShell para obtener nuevas características y mejoras. https://aka.ms/PSWindows

PS C:\Users\joseg> git --version
git version 2.52.0.windows.1
PS C:\Users\joseg> git config --global user.name "Jose Esteban Baca Gutierrez"
PS C:\Users\joseg> git config --global user.email "estebanbaca@miccorreo.upp.edu.mx"
PS C:\Users\joseg> git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=schannel
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential=https://dev.azure.com.usehttppath=true
init.defaultbranch=master
core.editor="C:\Users\joseg\AppData\Local\Programs\Microsoft VS Code\bin\code" --wait
user.name=Jose Esteban Baca Gutierrez
user.email=estebanbaca@miccorreo.upp.edu.mx
PS C:\Users\joseg>
```

# GitHub Desktop



# Publicación del repositorio



# Proyecto Angular

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS cmd + v

CREATE Practicacion/angular.json (2148 bytes)
CREATE Practicacion/package.json (1198 bytes)
CREATE Practicacion/README.md (1552 bytes)
CREATE Practicacion/.editorconfig (147 bytes)
CREATE Practicacion/.editorconfig (231 bytes)
CREATE Practicacion/.gitignore (666 bytes)
CREATE Practicacion/.tsconfig.app.json (464 bytes)
CREATE Practicacion/.tsconfig.spec.json (456 bytes)
CREATE Practicacion/.vscode/extensions.json (134 bytes)
CREATE Practicacion/.vscode/launch.json (498 bytes)
CREATE Practicacion/.vscode/sep.json (191 bytes)
CREATE Practicacion/.vscode/tasks.json (1030 bytes)
CREATE Practicacion/src/main.ts (228 bytes)
CREATE Practicacion/src/index.html (289 bytes)
CREATE Practicacion/src/styles.css (81 bytes)
CREATE Practicacion/src/main.server.ts (308 bytes)
CREATE Practicacion/src/server.ts (1677 bytes)
CREATE Practicacion/src/app/app.spec.ts (708 bytes)
CREATE Practicacion/src/app/app.ts (800 bytes)
CREATE Practicacion/src/app/app.component.css (8 bytes)
CREATE Practicacion/src/app/app.html (20466 bytes)
CREATE Practicacion/src/app/app.config.ts (453 bytes)
CREATE Practicacion/src/app/app.routes.ts (88 bytes)
CREATE Practicacion/src/app/app.config.server.ts (438 bytes)
CREATE Practicacion/src/app/app.routes.server.ts (174 bytes)
CREATE Practicacion/public/favicon.ico (15886 bytes)
✓ Packages installed successfully.

Directory is already under version control. Skipping initialization of git.

C:\Users\josep\OneDrive\Documentos\GitHub\Practices Web EstebanBaca67\Practicacion>
C:\Users\josep\OneDrive\Documentos\GitHub\Practices Web EstebanBaca67\Practicacion>
```

```
Thank you for sharing pseudonymous usage data. Should you change your mind, the following
command will disable this feature entirely:

  ng analytics disable

Global setting: enabled
Local setting: enabled
Effective status: enabled
Browser bundles
Initial chunk files | Names           | Raw size
main.js              | main             | 48.50 kB
styles.css           | styles           | 95 bytes
                                         | Initial total   | 48.60 kB

Server bundles
Initial chunk files | Names           | Raw size
main.server.mjs     | main.server      | 49.77 kB
server.mjs          | server           | 1.81 kB
polyfills.server.mjs| polyfills.server | 243 bytes

Application bundle generation complete. [2.505 seconds] - 2026-01-16T08:23:17.193Z

Watch mode enabled. Watching for file changes...
NOTE: Raw file sizes do not reflect development server per-request transformations.
→ Local: http://localhost:4200/
→ press h + enter to show help
```

# Proyecto Angular

