

- Instalación de Node: Angular funciona bajo la infraestructura de Node.
- Nos descargamos Node de la página web. LTS porque es la más estable.
- Comprobamos que lo tenemos instalado correctamente por consola.

```
inma@MacBook-Pro-de-Inmaculada ~ % node --version
v16.13.0
inma@MacBook-Pro-de-Inmaculada ~ %
```

- Verificamos que se ha instalado NPM: que es el gestor de paquetes de Node.

```
inma@MacBook-Pro-de-Inmaculada ~ % npm --version
8.1.0
inma@MacBook-Pro-de-Inmaculada ~ %
```

- Vamos a actualizar desde la consola el gestor de paquetes con permisos de administrador.

```
inma@MacBook-Pro-de-Inmaculada ~ % sudo npm install -g npm@latest
Password:
```

```
removed 2 packages, and changed 15 packages in 2s
```

```
10 packages are looking for funding
  run `npm fund` for details
```

```
npm notice
npm notice New patch version of npm available! 8.1.0 -> 8.1.3
npm notice Changelog: https://github.com/npm/cli/releases/tag/v8.1.3
npm notice Run npm install -g npm@8.1.3 to update!
npm notice
```

- La opción -g lo instala de forma global en nuestro equipo.
- Ahora vamos a instalar Angular, podemos seguir la guía de la página oficial de Angular.

<https://angular.io/guide/setup-local>

```
[sh-3.2# npm uninstall -g angular-cli
```

```
up to date in 463ms
```

```
sh-3.2# █
```

- Borramos la caché de npm para que no haya conflictos con paquetes cacheados y dependencias.

```
[sh-3.2# npm cache clean --force
```

```
npm WARN using --force Recommended protections disabled.
```

```
sh-3.2# █
```

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- Ahora instalamos Angular-cli

```
[sh-3.2# npm uninstall -g angular-cli
```

```
up to date in 463ms
```

```
[sh-3.2# npm cache clean --force
```

```
npm WARN using --force Recommended protections disabled.
```

```
[sh-3.2# npm install -g @angular/cli@latest
```

```
(( )) " reify:rxjs: http fetch GET 200 https://registry.npmjs.org/rxj:
```

- Para comprobar que se ha ejecutado correctamente ejecutamos ng

```
[sh-3.2# ng
Available Commands:
  add Adds support for an external library to your project.
  analytics Configures the gathering of Angular CLI usage metrics. See https://angular.io/cli/usage-analytics-gathering.
  build (b) Compiles an Angular app into an output directory named dist/ at the given output path. Must be executed from within
a workspace directory.
  deploy Invokes the deploy builder for a specified project or for the default project in the workspace.
  config Retrieves or sets Angular configuration values in the angular.json file for the workspace.
  doc (d) Opens the official Angular documentation (angular.io) in a browser, and searches for a given keyword.
  e2e (e) Builds and serves an Angular app, then runs end-to-end tests.
  extract-i18n (i18n-extract, xi18n) Extracts i18n messages from source code.
  generate (g) Generates and/or modifies files based on a schematic.
  help Lists available commands and their short descriptions.
  lint (l) Runs linting tools on Angular app code in a given project folder.
  new (n) Creates a new workspace and an initial Angular application.
  run Runs an Architect target with an optional custom builder configuration defined in your project.
  serve (s) Builds and serves your app, rebuilding on file changes.
  test (t) Runs unit tests in a project.
  update Updates your application and its dependencies. See https://update.angular.io/
  version (v) Outputs Angular CLI version.

For more detailed help run "ng [command name] --help"
sh-3.2# █
```

Aparecen instalados los comandos que se pueden ejecutar.