

Construye una imagen de Angular

Instalación de angular y npm

```
tona@tona-HVY-WXX9: ~$ sudo apt-get install curl
[sudo] contraseña para tona:
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias
Leyendo la información de estado... Hecho
curl ya está en su versión más reciente (7.68.0-1ubuntu2.18).
0 actualizados, 0 nuevos se instalarán, 0 para eliminar y 318 no actualizados.
tona@tona-HVY-WXX9: ~$
```

```
tona@tona-HVY-WXX9: ~$ sudo apt-get install curl
[sudo] contraseña para tona:
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias
Leyendo la información de estado... Hecho
curl ya está en su versión más reciente (7.68.0-1ubuntu2.18).
0 actualizados, 0 nuevos se instalarán, 0 para eliminar y 318 no actualizados.
tona@tona-HVY-WXX9: ~$ sudo apt update
Obj:1 https://download.docker.com/linux/ubuntu focal InRelease
Ign:2 http://packages.linuxmint.com una InRelease
Obj:3 http://archive.ubuntu.com/ubuntu focal InRelease
Obj:4 https://dl.google.com/linux/chrome/deb stable InRelease
Des:5 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Obj:6 http://packages.linuxmint.com una Release
Obj:7 http://ppa.launchpad.net/fyrmir/livewallpaper-daily/ubuntu focal InRelease
Des:8 http://archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Obj:9 http://archive.canonical.com/ubuntu focal InRelease
Des:11 http://archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Des:12 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [2 686 kB]
Des:13 http://archive.ubuntu.com/ubuntu focal-updates/main i386 Packages [851 kB]
Des:14 http://archive.ubuntu.com/ubuntu focal-updates/main Translation-en [449 kB]
Descargados 4 322 kB en 3s (1 362 kB/s)
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias
Leyendo la información de estado... Hecho
Se pueden actualizar 318 paquetes. Ejecute «apt list --upgradable» para verlos.
tona@tona-HVY-WXX9: ~$
```

```
tona@tona-HVY-WXX9: ~  
tona@tona-HVY-WXX9:~$ curl https://raw.githubusercontent.com/creationix/nvm/master/install.sh | bash  
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current  
           Dload  Upload   Total   Spent    Left   Speed  
100 15916  100 15916    0     0  63158      0 --:--:-- --:--:-- --:--:-- 63158  
=> Downloading nvm from git to '/home/tona/.nvm'  
=> Clonando en '/home/tona/.nvm'...  
remote: Enumerating objects: 360, done.  
remote: Counting objects: 100% (360/360), done.  
remote: Compressing objects: 100% (306/306), done.  
remote: Total 360 (delta 40), reused 168 (delta 28), pack-reused 0  
Recibiendo objetos: 100% (360/360), 219.88 KiB | 1.93 MiB/s, listo.  
Resolviendo deltas: 100% (40/40), listo.  
* (HEAD desacoplada en FETCH_HEAD)  
  master  
=> Compressing and cleaning up git repository  
=> Appending nvm source string to /home/tona/.bashrc  
=> Appending bash completion source string to /home/tona/.bashrc  
=> Close and reopen your terminal to start using nvm or run the following to use it now:  
  
export NVM_DIR="$HOME/.nvm"  
[ -s "$NVM_DIR/nvm.sh" ] && \. "$NVM_DIR/nvm.sh" # This loads nvm  
[ -s "$NVM_DIR/bash_completion" ] && \. "$NVM_DIR/bash_completion" # This loads nvm bash_completion  
tona@tona-HVY-WXX9:~$
```

```
tona@tona-HVY-WXX9: ~  
tona@tona-HVY-WXX9:~$ source ~/.bashrc  
tona@tona-HVY-WXX9:~$ nvm install node  
Downloading and installing node v20.4.0...  
Downloading https://nodejs.org/dist/v20.4.0/node-v20.4.0-linux-x64.tar.xz...##### 100.0%  
Computing checksum with sha256sum  
Checksums matched!  
Now using node v20.4.0 (npm v9.7.2)  
Creating default alias: default -> node ( -> v20.4.0)  
tona@tona-HVY-WXX9:~$
```

```
tona@tona-HVY-WXX9:~$ source ~/.bashrc
tona@tona-HVY-WXX9:~$ nvm install node
Downloading and installing node v20.4.0...
Downloading https://nodejs.org/dist/v20.4.0/node-v20.4.0-linux-x64.tar.xz...
##### 100.0%
Computing checksum with sha256sum
Checksums matched!
Now using node v20.4.0 (npm v9.7.2)
Creating default alias: default -> node (-> v20.4.0)
tona@tona-HVY-WXX9:~$ npm --version
9.7.2
tona@tona-HVY-WXX9:~$ npm install -g @angular/cli

added 239 packages in 19s

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

npm notice
npm notice New minor version of npm available! 9.7.2 -> 9.8.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v9.8.0
npm notice Run npm install -g npm@9.8.0 to update!
npm notice
tona@tona-HVY-WXX9:~$
```

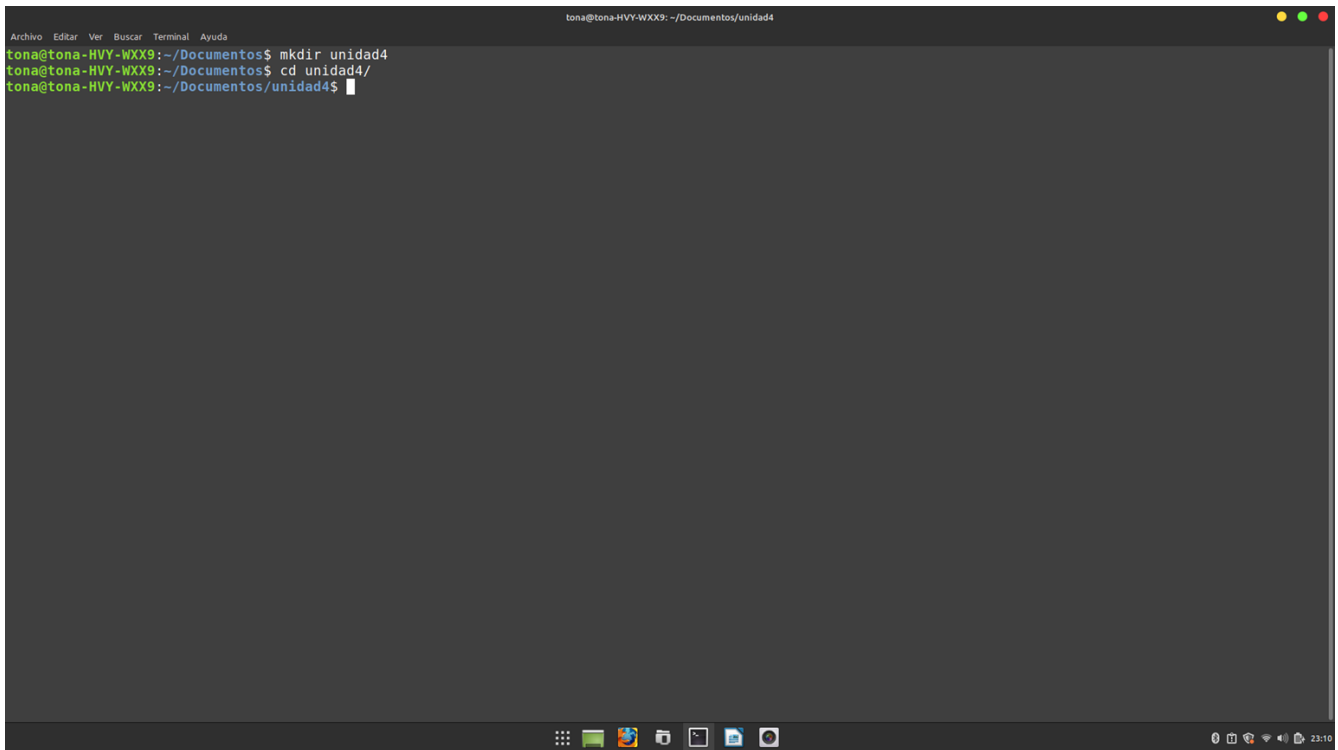
```
tona@tona-HVY-WXX9:~/Documentos$ ng version

Angular CLI
Node: 20.4.0 (Unsupported)
Package Manager: npm 9.7.2
OS: linux x64

Angular:
...
Package      Version
-----
@angular-devkit/architect 0.1601.4 (cli-only)
@angular-devkit/core      16.1.4 (cli-only)
@angular-devkit/schematics 16.1.4 (cli-only)
@schematics/angular       16.1.4 (cli-only)

Warning: The current version of Node (20.4.0) is not supported by Angular.
tona@tona-HVY-WXX9:~/Documentos$
```

Crear una carpeta trabajo para la unidad 4

A screenshot of a Linux terminal window. The title bar at the top reads 'tona@tona-HVY-WXX9: ~/Documentos/unidad4'. The terminal shows three lines of commands and their outputs: 'mkdir unidad4', 'cd unidad4/', and a prompt in the new directory. The desktop environment is visible at the bottom with various icons and a system tray showing the time as 23:10.

```
tona@tona-HVY-WXX9: ~/Documentos/unidad4
tona@tona-HVY-WXX9:~/Documentos$ mkdir unidad4
tona@tona-HVY-WXX9:~/Documentos$ cd unidad4/
tona@tona-HVY-WXX9:~/Documentos/unidad4$
```

Crear una aplicación Angular llamada **ejer02_{nombre_usuario}** dentro de la carpeta de trabajo, utiliza el estilo **SCSS**, y habilita el routing de la aplicación. Ejecutar el siguiente comando

ng new ejer02_gbarron --style=scss --routing

```
tona@tona-HVY-WXX9: ~/Documentos/unidad4
Archivo Editar Ver Buscar Terminal Ayuda
tona@tona-HVY-WXX9:~/Documentos/unidad4$ ng new ejer02_grojas --style=scss --routing
CREATE ejer02_grojas/README.md (1066 bytes)
CREATE ejer02_grojas/.editorconfig (274 bytes)
CREATE ejer02_grojas/.gitignore (548 bytes)
CREATE ejer02_grojas/angular.json (2909 bytes)
CREATE ejer02_grojas/package.json (1044 bytes)
CREATE ejer02_grojas/tsconfig.json (901 bytes)
CREATE ejer02_grojas/tsconfig.app.json (263 bytes)
CREATE ejer02_grojas/tsconfig.spec.json (273 bytes)
CREATE ejer02_grojas/.vscode/extensions.json (130 bytes)
CREATE ejer02_grojas/.vscode/launch.json (470 bytes)
CREATE ejer02_grojas/.vscode/tasks.json (938 bytes)
CREATE ejer02_grojas/src/main.ts (214 bytes)
CREATE ejer02_grojas/src/favicon.ico (948 bytes)
CREATE ejer02_grojas/src/index.html (298 bytes)
CREATE ejer02_grojas/src/styles.scss (80 bytes)
CREATE ejer02_grojas/src/app/app-routing.module.ts (245 bytes)
CREATE ejer02_grojas/src/app/app.module.ts (393 bytes)
CREATE ejer02_grojas/src/app/app.component.scss (0 bytes)
CREATE ejer02_grojas/src/app/app.component.html (23115 bytes)
CREATE ejer02_grojas/src/app/app.component.spec.ts (1012 bytes)
CREATE ejer02_grojas/src/app/app.component.ts (218 bytes)
CREATE ejer02_grojas/src/assets/.gitkeep (0 bytes)
✓ Packages installed successfully.

*** Por favor cuéntame quién eres.

Ejecuta

  git config --global user.email "you@example.com"
  git config --global user.name "Tu Nombre"

para configurar la identidad por defecto de tu cuenta.
Omite --global para configurar tu identidad solo en este repositorio.

fatal: no es posible auto-detectar la dirección de correo (se obtuvo 'tona@tona-HVY-WXX9.(none)')
tona@tona-HVY-WXX9:~/Documentos/unidad4$
```

Configurar github

```
tona@tona-HVY-WXX9:~/Documentos/unidad4$ git config --global user.email "tonathiu123456@gmail.com"
tona@tona-HVY-WXX9:~/Documentos/unidad4$ git config --global user.name "tona1920"
tona@tona-HVY-WXX9:~/Documentos/unidad4$ git config --global user.name
tona1920
tona@tona-HVY-WXX9:~/Documentos/unidad4$ git config --global user.email
tonathiu123456@gmail.com
tona@tona-HVY-WXX9:~/Documentos/unidad4$
```

instalar vs code

Agregar la clave GPG del repositorio de Microsoft

```
tona@tona-HVY-WXX9: ~  
tona@tona-HVY-WXX9:~$ wget -qO- https://packages.microsoft.com/keys/microsoft.asc | gpg --dearmor > microsoft.gpg  
tona@tona-HVY-WXX9:~$ sudo mv microsoft.gpg /etc/apt/trusted.gpg.d/microsoft.gpg  
[sudo] contraseña para tona:  
tona@tona-HVY-WXX9:~$
```

Agregar el repositorio de VS Code

```
tona@tona-HVY-WXX9: ~  
tona@tona-HVY-WXX9:~$ echo "deb [arch=amd64] https://packages.microsoft.com/repos/vscode stable main" | sudo tee /etc/apt/sources.list.d/vscode.list  
deb [arch=amd64] https://packages.microsoft.com/repos/vscode stable main  
tona@tona-HVY-WXX9:~$
```

instalar VS Code

```
Archivo Editar Ver Buscar Terminal Ayuda
tona@tona-HVY-WXX9: ~
Des:40 http://security.ubuntu.com/ubuntu focal-security/multiverse Translation-en [5 504 B]
Des:41 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 DEP-11 Metadata [940 B]
Des:42 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 c-n-f Metadata [548 B]
Des:43 http://archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [1 083 kB]
Des:44 http://archive.ubuntu.com/ubuntu focal-updates/universe Translation-en [258 kB]
Des:45 http://archive.ubuntu.com/ubuntu focal-updates/universe amd64 DEP-11 Metadata [410 kB]
Des:46 http://archive.ubuntu.com/ubuntu focal-updates/universe amd64 c-n-f Metadata [25.2 kB]
Des:47 http://archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [25.8 kB]
Des:48 http://archive.ubuntu.com/ubuntu focal-updates/multiverse i386 Packages [8 436 B]
Des:49 http://archive.ubuntu.com/ubuntu focal-updates/multiverse Translation-en [7 424 B]
Des:50 http://archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 DEP-11 Metadata [944 B]
Des:51 http://archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 c-n-f Metadata [620 B]
Des:52 http://archive.ubuntu.com/ubuntu focal-backports/main amd64 DEP-11 Metadata [8 008 B]
Des:53 http://archive.ubuntu.com/ubuntu focal-backports/universe amd64 DEP-11 Metadata [30.5 kB]
Descargados 16.8 MB en 7s (2 339 kB/s)
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias
Leyendo la información de estado... Hecho
Se pueden actualizar 318 paquetes. Ejecute «apt list --upgradable» para verlos.
tona@tona-HVY-WXX9:~$ sudo apt install code
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias
Leyendo la información de estado... Hecho
Se instalarán los siguientes paquetes NUEVOS:
code
0 actualizados, 1 nuevos se instalarán, 0 para eliminar y 318 no actualizados.
Se necesita descargar 96.1 MB de archivos.
Se utilizarán 380 MB de espacio de disco adicional después de esta operación.
Des:1 https://packages.microsoft.com/repos/vscode stable/main amd64 code amd64 1.80.0-1688479026 [96.1 MB]
Descargados 96.1 MB en 20s (4 834 kB/s)
Seleccionando el paquete code previamente no seleccionado.
(Leyendo la base de datos ... 319629 ficheros o directorios instalados actualmente.)
Preparando para desempaquetar .../code_1.80.0-1688479026_amd64.deb ...
Desempaquetando code (1.80.0-1688479026) ...
Configurando code (1.80.0-1688479026) ...
Procesando disparadores para mime-support (3.64ubuntu1) ...
Procesando disparadores para gnome-menus (3.36.0-1ubuntu1) ...
Procesando disparadores para shared-mime-info (1.15-1) ...
Procesando disparadores para desktop-file-utils (0.24+linuxmint1) ...
tona@tona-HVY-WXX9:~$
```

Hello World en Docker

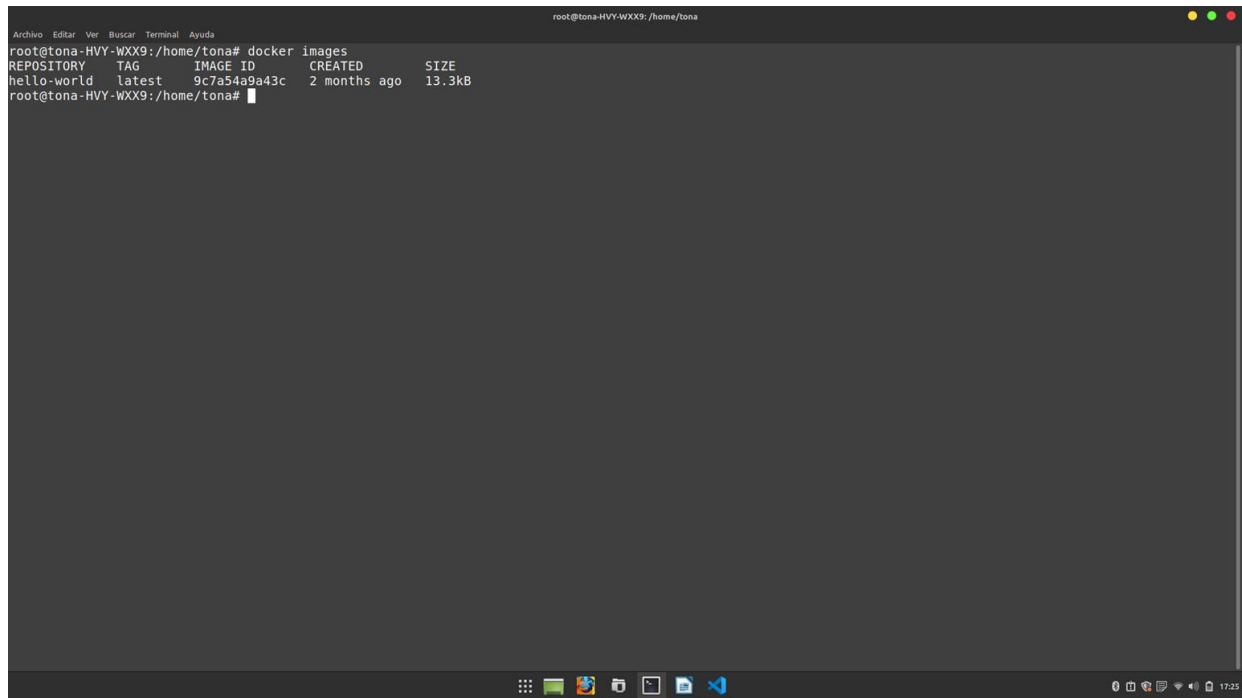
- Ejecutar el comando

`sudo docker pull hello-world`

```
root@tona-HVY-WXX9: /home/tona
Archivo Editar Ver Buscar Terminal Ayuda
tona@tona-HVY-WXX9:~$ sudo su
root@tona-HVY-WXX9:/home/tona# docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:al3ec89cdf897b3e551bd9f89d499db6ff3a7f44c5b9eb8bca40da20eb4ea1fa
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest
root@tona-HVY-WXX9:/home/tona#
```

- Listar las imágenes

`sudo docker images`



The screenshot shows a terminal window with the following content:

```
root@tona-HVY-WXX9:/home/tona# docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
hello-world	latest	9c7a54a9a43c	2 months ago	13.3kB

```
root@tona-HVY-WXX9:/home/tona#
```

- Ejecutar imagen Hello-World

`sudo docker run hello-world`


```
root@tona-HVY-WXX9: /home/tona# docker run hello-world

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

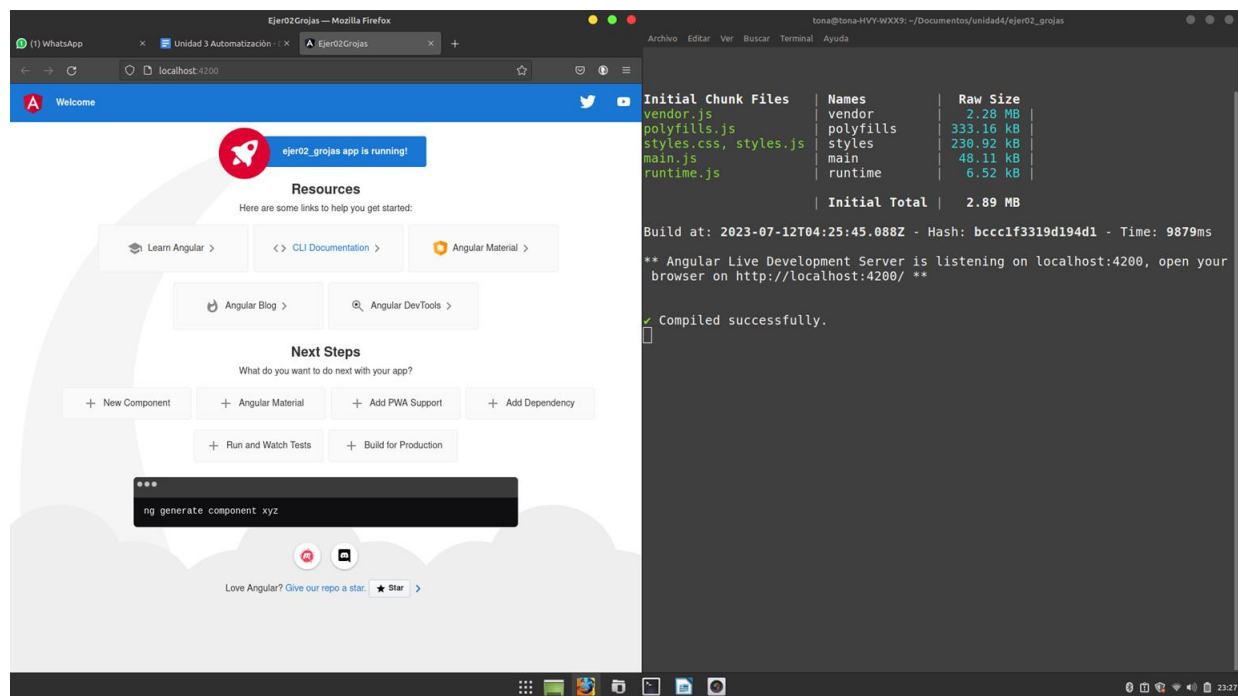
For more examples and ideas, visit:
https://docs.docker.com/get-started/

root@tona-HVY-WXX9: /home/tona#
```

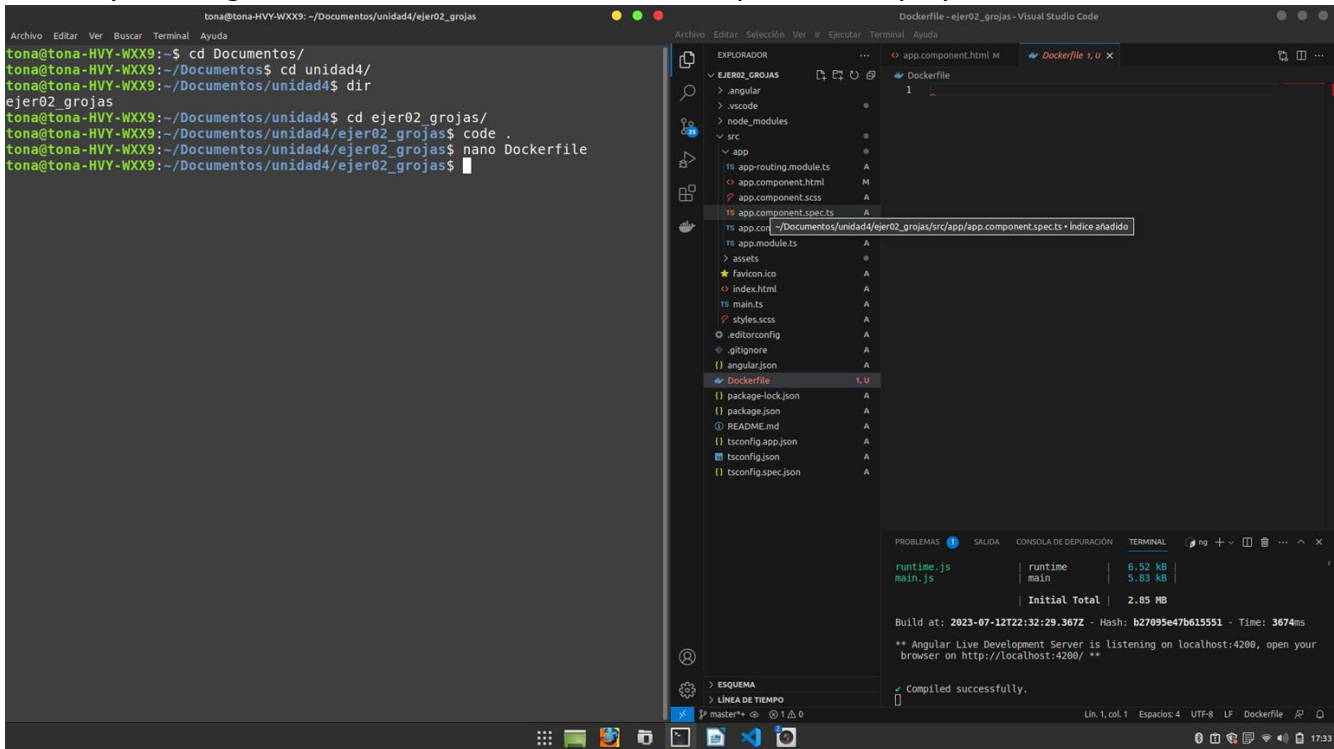
Iniciar el servidor de la aplicación recién creada.

`cd ejer02_gbarron`

`ng serve -o`



Construye la imagen creando archivo **Dockerfile** en carpeta raíz de proyecto



The screenshot shows a terminal window on the left and the Visual Studio Code interface on the right. The terminal shows the following commands and output:

```
tona@tona-HVY-WXX9: ~/Documentos/unidad4/ejer02_grojas
tona@tona-HVY-WXX9:~$ cd Documentos/
tona@tona-HVY-WXX9:~/Documentos$ cd unidad4/
tona@tona-HVY-WXX9:~/Documentos/unidad4$ dir
ejer02_grojas
tona@tona-HVY-WXX9:~/Documentos/unidad4$ cd ejer02_grojas/
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ code .
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ nano Dockerfile
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$
```

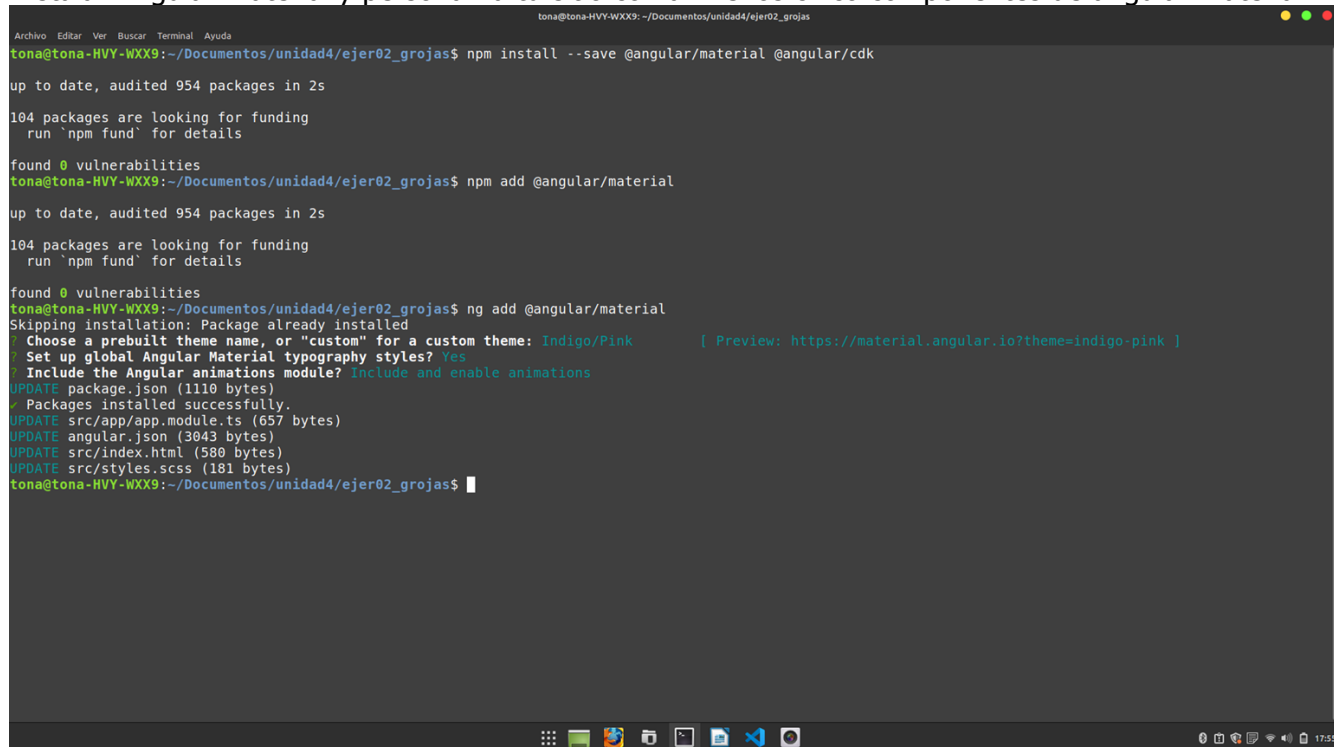
The Visual Studio Code interface shows the Explorer view on the left with the file tree. The Dockerfile is open in the editor. The output window at the bottom shows the build process:

```
runtime.js      runtime      6.52 kB
main.js         main        5.83 kB
Initial Total   2.85 MB

Build at: 2023-07-12T22:32:29.367Z - Hash: b27895e47b615551 - Time: 3674ms
** Angular Live Development Server is listening on localhost:4200, open your
browser on http://localhost:4200/ **

Compiled successfully.
```

Instalar Angular material y personaliza tu sitio con al menos cinco componentes de angular material



The screenshot shows a terminal window with the following commands and output:

```
tona@tona-HVY-WXX9: ~/Documentos/unidad4/ejer02_grojas
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ npm install --save @angular/material @angular/cdk

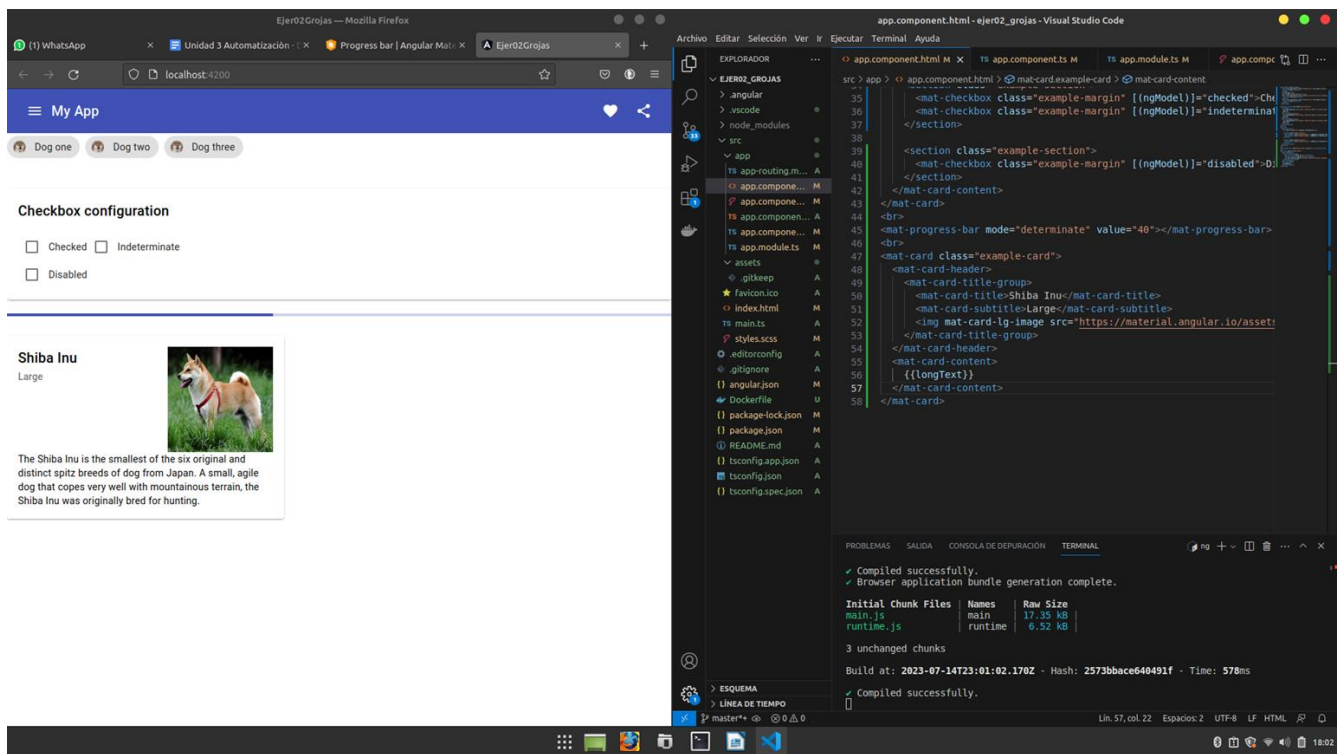
up to date, audited 954 packages in 2s
104 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ npm add @angular/material

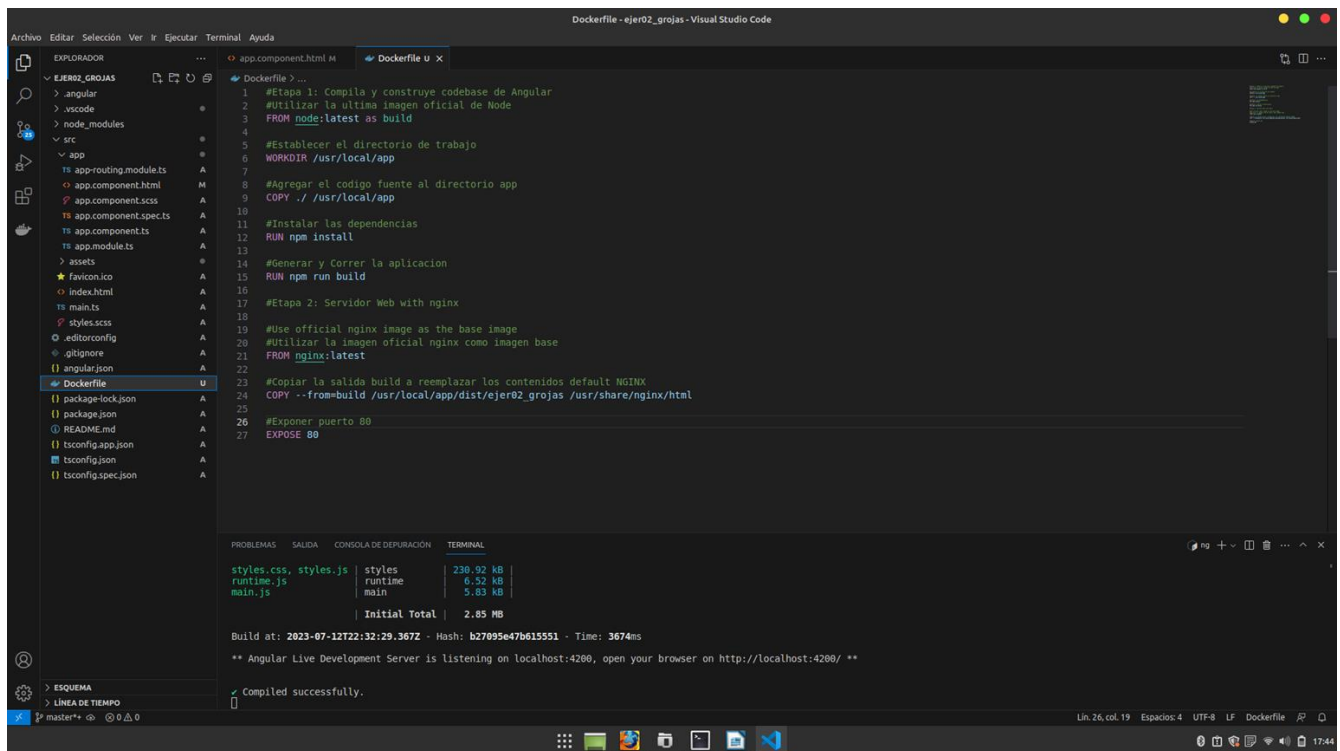
up to date, audited 954 packages in 2s
104 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ ng add @angular/material
Skipping installation: Package already installed
  Choose a prebuilt theme name, or "custom" for a custom theme: Indigo/Pink [ Preview: https://material.angular.io?theme=indigo-pink ]
  Set up global Angular Material typography styles? Yes
  Include the Angular animations module? Include and enable animations
UPDATE package.json (1110 bytes)
  Packages installed successfully.
UPDATE src/app/app.module.ts (657 bytes)
UPDATE angular.json (3843 bytes)
UPDATE src/index.html (580 bytes)
UPDATE src/styles.scss (181 bytes)
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$
```

Borrar contenido de componente **app.component.html** y agregar datos de tí mismo como nombre completo, asignatura, práctica y fecha a través de lenguaje HTML; aplicar estilos a través de CSS que hayas aprendido en asignaturas anteriores modificando el archivo **app.component.scss**.



Modificar archivo **Dockerfile** y agregar las siguientes instrucciones.



Crear imagen desde el directorio raíz de la aplicación, esperar a qué se construya la imagen

```
tona@tona-HVY-WX9: ~/Documentos/unidad4/ejer02_grojas
Archivo Editar Ver Buscar Terminal Ayuda
tona@tona-HVY-WX9:~/Documentos/unidad4/ejer02_grojas$ sudo docker build -t ejer02_grojas:1.0 .
[sudo] contraseña para tona:
[+] Building 6.0s (4/12)
=> [internal] load .dockerignore
=> [internal] load build definition from Dockerfile
=> [internal] load metadata for docker.io/library/nginx:latest
=> [build 1/5] FROM docker.io/library/node:latest@sha256:b3ca7d32f0c12291df6e45a914d4ee60011a3fce4a978df5e609e356a4a2cb88
=> resolve docker.io/library/node:latest@sha256:b3ca7d32f0c12291df6e45a914d4ee60011a3fce4a978df5e609e356a4a2cb88
=> sha256:b3ca7d32f0c12291df6e45a914d4ee60011a3fce4a978df5e609e356a4a2cb88 1.21kB / 1.21kB
=> sha256:c06b3b7c0a473f4b071ae1e452f82baea3e5442d8df00316b069d274b04c6 2.00kB / 2.00kB
=> sha256:b09e49e0e9f1e0e0c0d1865c3f8fc3b90cd01662ba3a8000bdaa31bec336 7.24kB / 7.24kB
=> sha256:d52e4f012db158bb7c0fe215b98af1facaddcbae530ef69b1bae07d597b711 10.49MB / 49.55MB
=> sha256:7dd206bae61ff3e3b54be1c20b58d8475dd6f89df176146ddb7a2fd2c747ea2 1.05MB / 24.03MB
=> sha256:232f99e49c605d1ac847cf67cec42b91484a7cf7c94996417a0c7c316deadc 3.15MB / 64.11MB
=> [internal] load build context
=> transferring context: 480.45MB
=> [stage 1 1/2] FROM docker.io/library/nginx:latest@sha256:08bc36ad52474e528cc1ea3426b5e3f4bad8a130318e3140d6cfe29c8892c7ef
=> resolve docker.io/library/nginx:latest@sha256:08bc36ad52474e528cc1ea3426b5e3f4bad8a130318e3140d6cfe29c8892c7ef
=> sha256:021283c8eb95be02b23db0de7f609d60353c6714785e7a673c0594a624ffbd8 8.15kB / 8.15kB
=> sha256:08bc36ad52474e528cc1ea3426b5e3f4bad8a130318e3140d6cfe29c8892c7ef 1.86kB / 1.86kB
=> sha256:1bb5c486cb7c1e9f0209611dc2135d8a2c1c3a643616397c899193787d067ea 1.78kB / 1.78kB
```

```
tona@tona-HVY-WX9: ~/Documentos/unidad4/ejer02_grojas
Archivo Editar Ver Buscar Terminal Ayuda
=> resolve docker.io/library/node:latest@sha256:b3ca7d32f0c12291df6e45a914d4ee60011a3fce4a978df5e609e356a4a2cb88 0.0s
=> sha256:b3ca7d32f0c12291df6e45a914d4ee60011a3fce4a978df5e609e356a4a2cb88 1.21kB / 1.21kB 0.0s
=> sha256:c06b3b7c0a473f4b071ae1e452f82baea3e5442d8df00316b069d274b04c6 2.00kB / 2.00kB 0.0s
=> sha256:b09e49e0e9f1e0e0c0d1865c3f8fc3b90cd01662ba3a8000bdaa31bec336 7.24kB / 7.24kB 0.0s
=> sha256:d52e4f012db158bb7c0fe215b98af1facaddcbae530ef69b1bae07d597b711 10.49MB / 49.55MB 15.7s
=> sha256:7dd206bae61ff3e3b54be1c20b58d8475dd6f89df176146ddb7a2fd2c747ea2 1.05MB / 24.03MB 69.8s
=> sha256:232f99e49c605d1ac847cf67cec42b91484a7cf7c94996417a0c7c316deadc 3.15MB / 64.11MB 172.2s
=> sha256:6e565e0bbdfc3209d49f21ceeb21294ee0bb816d94cbb2d094ca61082f657 211.00MB / 211.00MB 159.7s
=> extracting sha256:d52e4f012db158bb7c0fe215b98af1facaddcbae530ef69b1bae07d597b711 2.4kB 2.6s
=> extracting sha256:7dd206bae61ff3e3b54be1c20b58d8475dd6f89df176146ddb7a2fd2c747ea2 0.6s
=> sha256:5f152a28cf91707a0ef45c5624979f67215b1330ef0d6c05a0f94b39c96f0bc 3.37kB / 3.37kB 71.7s
=> sha256:b9c7405b482f54514258ccba5082cd81c7b44b1c17eb724d00aba2abb579458 47.49MB / 47.49MB 117.0s
=> sha256:09c0bc99587b3093ef483ee42f3eb2172bd02f47bf77a8009fcf2c155b43a95a 2.27MB / 2.27MB 119.1s
=> sha256:8e1c81907a57d7428736f326a052d663c80ae09f3162661050d3d91e43b4158 4500 / 4500 119.4s
=> extracting sha256:232f99e49c605d1ac847cf67cec42b91484a7cf7c94996417a0c7c316deadc 2.6s
=> extracting sha256:6e565e0bbdfc3209d49f21ceeb21294ee0bb816d94cbb2d094ca61082f657 7.8s
=> extracting sha256:5f152a28cf91707a0ef45c5624979f67215b1330ef0d6c05a0f94b39c96f0bc 0.0s
=> extracting sha256:b9c7405b482f54514258ccba5082cd81c7b44b1c17eb724d00aba2abb579458 2.2s
=> extracting sha256:9ab0bc99587b3093ef483ee42f3eb2172bd02f47bf77a8009fcf2c155b43a95a 0.1s
=> extracting sha256:8e1c81907a57d7428736f326a052d663c80ae09f3162661050d3d91e43b4158 0.0s
=> [internal] load build context
=> transferring context: 691.00MB 7.7s
=> [stage 1 1/2] FROM docker.io/library/nginx:latest@sha256:08bc36ad52474e528cc1ea3426b5e3f4bad8a130318e3140d6cfe29c8892c7ef 165.5s
=> resolve docker.io/library/nginx:latest@sha256:08bc36ad52474e528cc1ea3426b5e3f4bad8a130318e3140d6cfe29c8892c7ef 0.0s
=> sha256:021283c8eb95be02b23db0de7f609d60353c6714785e7a673c0594a624ffbd8 8.15kB / 8.15kB 0.0s
=> sha256:08bc36ad52474e528cc1ea3426b5e3f4bad8a130318e3140d6cfe29c8892c7ef 1.86kB / 1.86kB 0.0s
=> sha256:1bb5c486cb7c1e9f0209611dc2135d8a2c1c3a643616397c899193787d067ea 1.78kB / 1.78kB 0.0s
=> sha256:fae57ae888cbe4a5613eca6741b5e48d768b3f6088858aee9a5e2834f8151 29.12MB / 29.12MB 139.1s
=> extracting sha256:fae57ae888cbe4a5613eca6741b5e48d768b3f6088858aee9a5e2834f8151 1.2s
=> sha256:76579e9d380849bd422696f292770963b5ee917a45ef77336a1a0a782b410b5 41.46MB / 41.46MB 164.2s
=> sha256:cf707e2339551222c9afe3b7835f0df089f26bf59058b3487de2b7659399b667 6258 / 6258 169.6s
=> sha256:91b079377006f43490e143c0012c5f018084fec0768a01041b023c127a0210 9590 / 9590 161.1s
=> sha256:4b962717ba558b7dfab089c48e20ac80844b132915b660720ac49010c98ba1 3678 / 3678 161.3s
=> sha256:f46d705649a84d67e24418bbeeca3b1efbdc88d361631e849e9c41917ba776 1.21kB / 1.21kB 161.3s
=> sha256:1035b1419a0aefc94398ffcc7404f22931d9b89bb6021391c2cd4a286f37ca9 1.41kB / 1.41kB 161.5s
=> extracting sha256:76579e9d380849bd422696f292770963b5ee917a45ef77336a1a0a782b410b5 1.1s
=> extracting sha256:cf707e2339551222c9afe3b7835f0df089f26bf59058b3487de2b7659399b667 0.0s
=> extracting sha256:91b079377006f43490e143c0012c5f018084fec0768a01041b023c127a0210 0.0s
=> extracting sha256:4b962717ba558b7dfab089c48e20ac80844b132915b660720ac49010c98ba1 0.0s
=> extracting sha256:f46d705649a84d67e24418bbeeca3b1efbdc88d361631e849e9c41917ba776 0.0s
=> extracting sha256:1035b1419a0aefc94398ffcc7404f22931d9b89bb6021391c2cd4a286f37ca9 0.0s
=> [build 2/5] WORKDIR /usr/local/app 0.6s
=> [build 3/5] COPY /usr/local/app 1.8s
=> [build 4/5] RUN npm install 2.2s
=> [build 5/5] RUN npm run build 23.7s
=> [stage 1 2/2] COPY --from=build /usr/local/app/dist/ejer02_grojas /usr/share/nginx/html 0.0s
=> exporting to image 0.0s
=> exporting layers 0.0s
=> writing image sha256:ab2f197aded93ca44286f720fb7e08006f555da80e464bad8225ea09d5c94d4 0.0s
=> naming to docker.io/library/ejer02_grojas:1.0 0.0s
tona@tona-HVY-WX9:~/Documentos/unidad4/ejer02_grojas$
```

Verificar imágenes creadas mediante comando

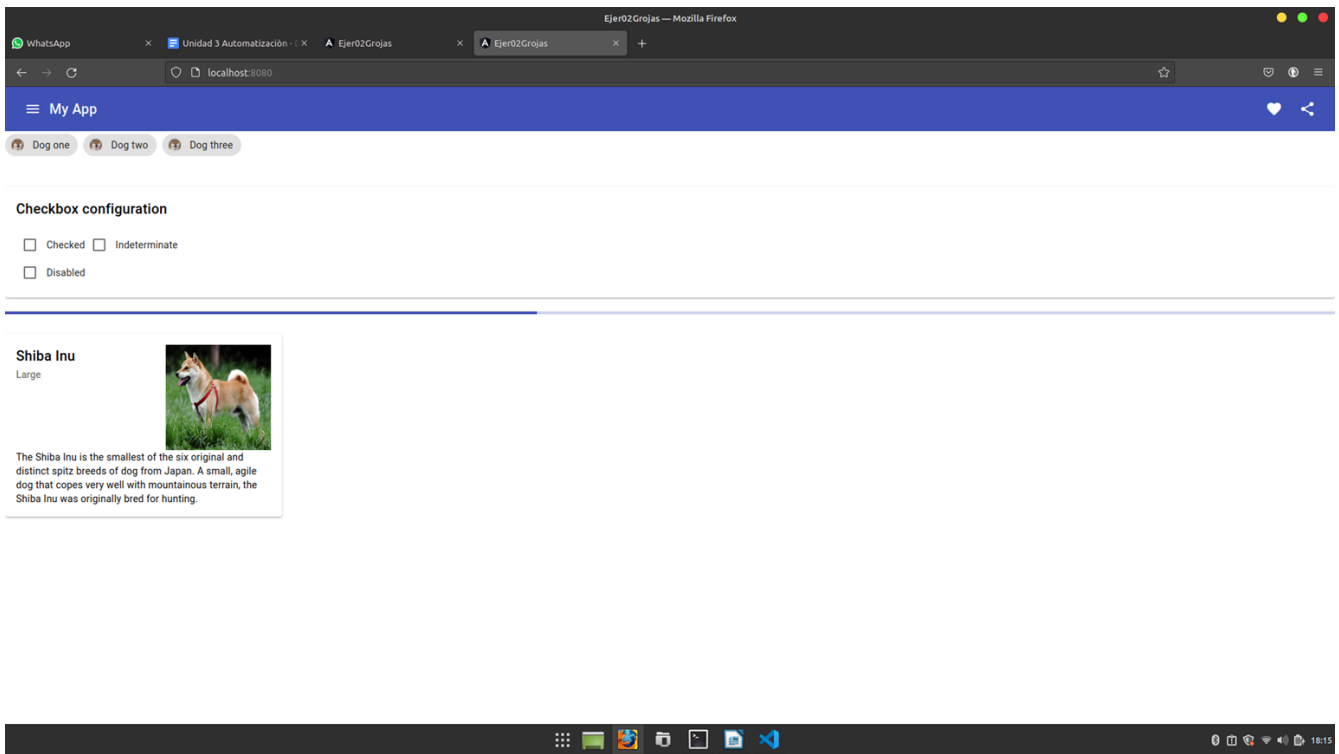
```
tona@tona-HVY-WX9:~/Documentos/unidad4/ejer02_grojas$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ejer02_grojas 1.0 eb2f197aded9 About a minute ago 187MB
hello-world latest 9c7a549a43c 2 months ago 13.3kB
tona@tona-HVY-WX9:~/Documentos/unidad4/ejer02_grojas$
```

Ejecutar la imagen y exponerla en el puerto 8080

```
tona@tona-HVY-WXX9: ~/Documentos/unidad4/ejer02_grojas
Archivo Editar Ver Buscar Terminal Ayuda
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ sudo docker run -d -p 8080:80 ejer02_grojas:1.0
50f45e1f421dad3e7491a440a7a8ba6ae3203c53a8f9e1a1a9a16da683eca278
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$
```

Mostrar un listado de los contenedores en ejecución

```
tona@tona-HVY-WXX9: ~/Documentos/unidad4/ejer02_grojas
Archivo Editar Ver Buscar Terminal Ayuda
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ sudo docker run -d -p 8080:80 ejer02_grojas:1.0
50f45e1f421dad3e7491a440a7a8ba6ae3203c53a8f9e1a1a9a16da683eca278
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ sudo docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
50f45e1f421d   ejer02_grojas:1.0   "/docker-entrypoint..."   About a minute ago   Up About a minute   0.0.0.0:8080->80/tcp, :::8080->80/tcp   recursing_jones
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$
```



Eliminar contenedores e imagenes recién creadas

```
tona@tona-HVY-WXX9: ~/Documentos/unidad4/ejer02_grojas
Archivo  Editar  Ver  Buscar  Terminal  Ayuda
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ sudo docker run -d -p 8080:80 ejer02_grojas:1.0
50f45e1f421dad3e7491a448a7a8ba6ae3203c53a8f9e1a1a9a16da683eca278
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ sudo docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED          STATUS          PORTS                               NAMES
50f45e1f421d   ejer02_grojas:1.0   "/docker-entrypoint...." About a minute ago   Up About a minute   0.0.0.0:8080->80/tcp, :::8080->80/tcp   recursing_jones
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ ^C
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ sudo docker stop 50f45e1f421d
50f45e1f421d
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ sudo docker rm 50f45e1f421d
50f45e1f421d
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ sudo docker imagen
docker: 'imagen' is not a docker command.
See 'docker --help'
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ sudo docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ejer02_grojas  1.0       eb2f197aded9   11 minutes ago  187MB
hello-world    latest    9c7a54a9a43c   2 months ago   13.3kB
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ sudo docker rmi eb2f197aded9
Untagged: ejer02_grojas:1.0
Deleted: sha256:eb2f197aded9ca30442d6f720fb7e88086f555da80e464bad8225ea09d5c94d4
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$ sudo docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
hello-world    latest    9c7a54a9a43c   2 months ago   13.3kB
tona@tona-HVY-WXX9:~/Documentos/unidad4/ejer02_grojas$
```