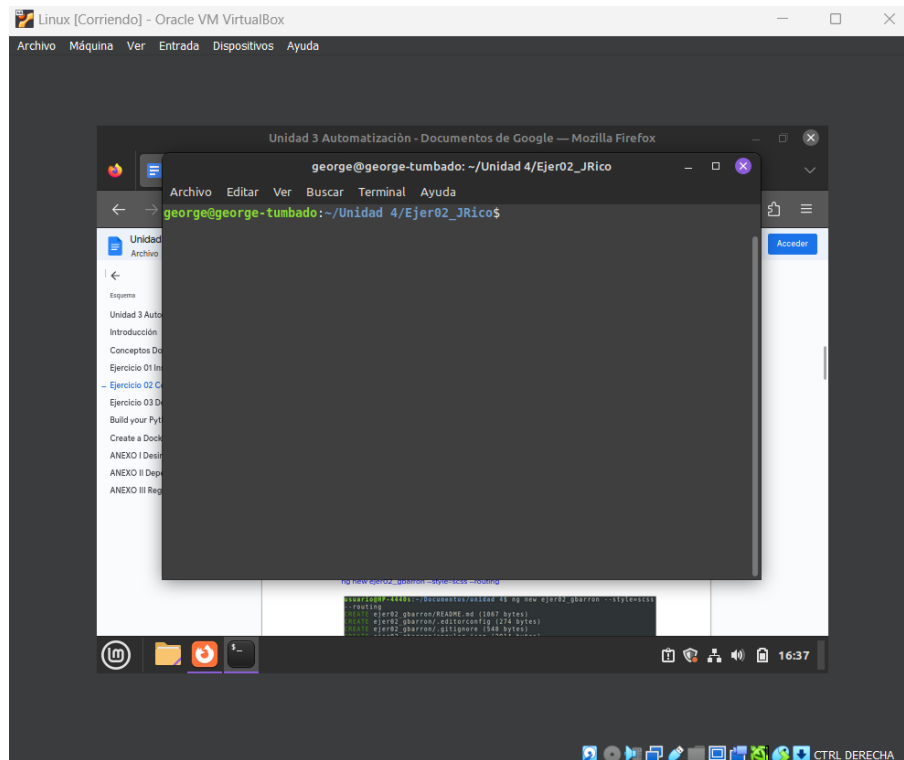
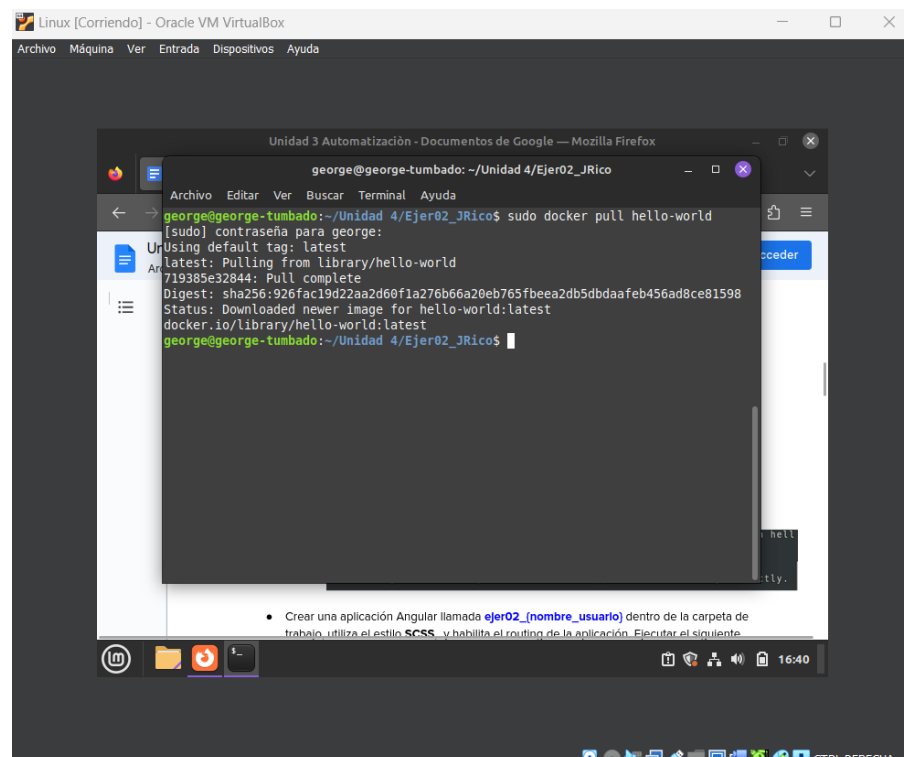


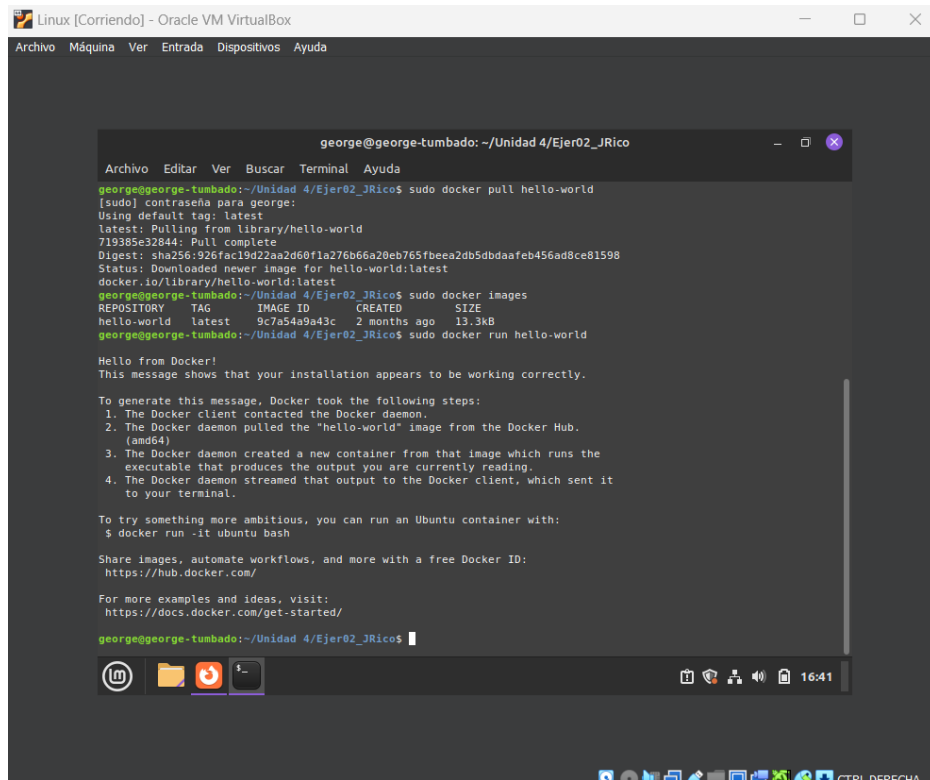
Construye una imagen de Angular

Crear una carpeta trabajo para la unidad 4



Hello World en Docker





```
Linux [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda

george@george-tumbado: ~/Unidad 4/Ejer02_JRico
Archivo Editar Ver Buscar Terminal Ayuda

george@george-tumbado:~/Unidad 4/Ejer02_JRico$ sudo docker pull hello-world
[sudo] contraseña para george:
Using default tag: latest
latest: Pulling from library/hello-world
719385e32844: Pull complete
Digest: sha256:926fac19d22aa2d60f1a276b66a20eb765fbee2db5dbdafeb456ad8ce81598
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
george@george-tumbado:~/Unidad 4/Ejer02_JRico$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-world latest 9c7a54a9a43c 2 months ago 13.3kB
george@george-tumbado:~/Unidad 4/Ejer02_JRico$ sudo 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.

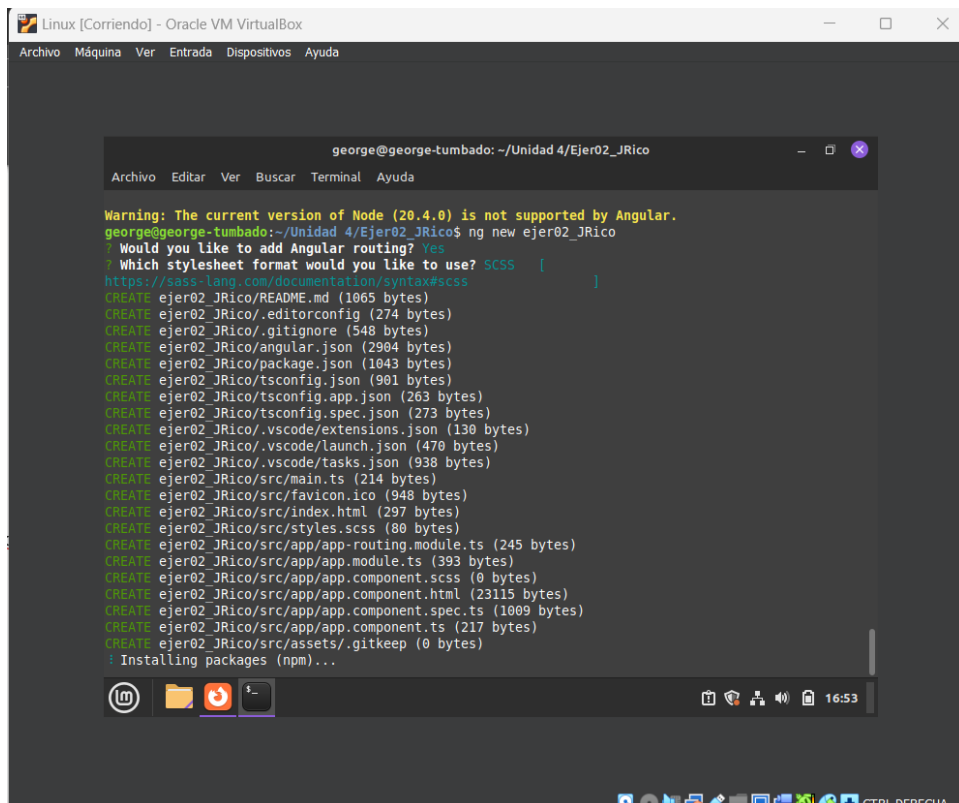
To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

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/

george@george-tumbado:~/Unidad 4/Ejer02_JRico$
```

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

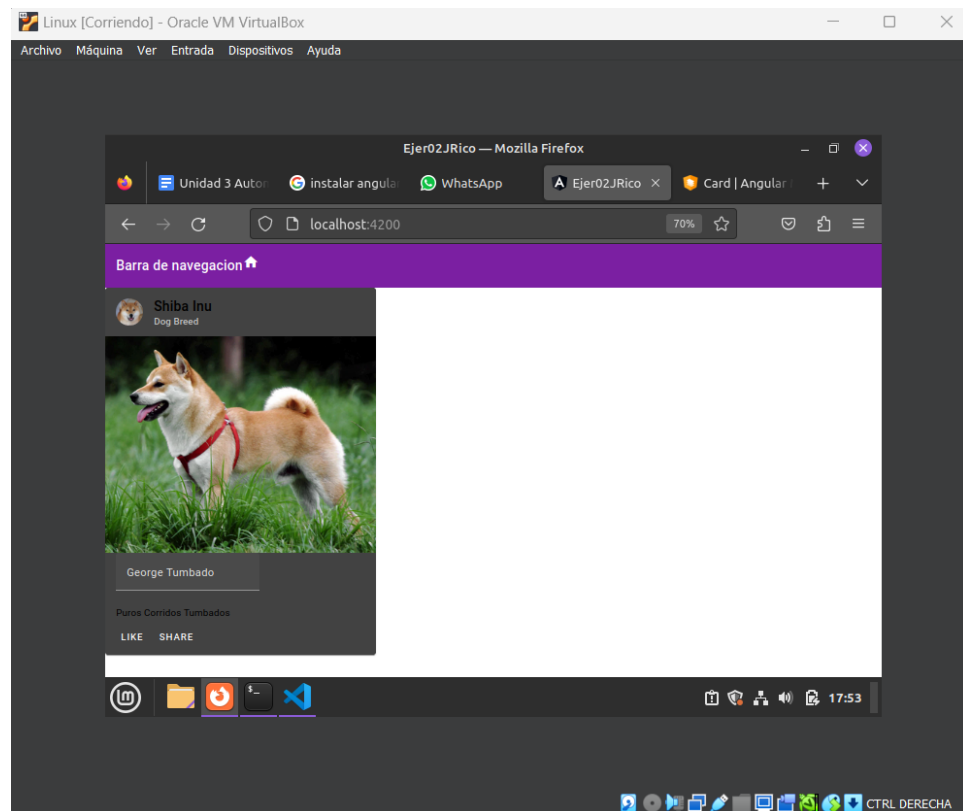
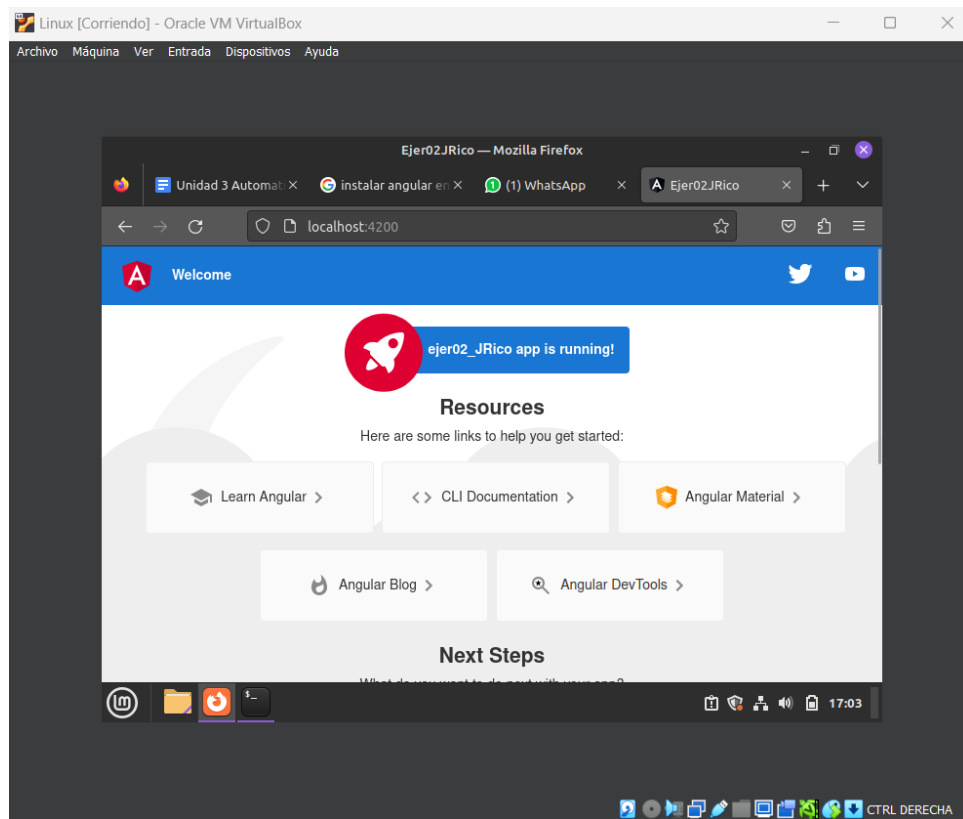


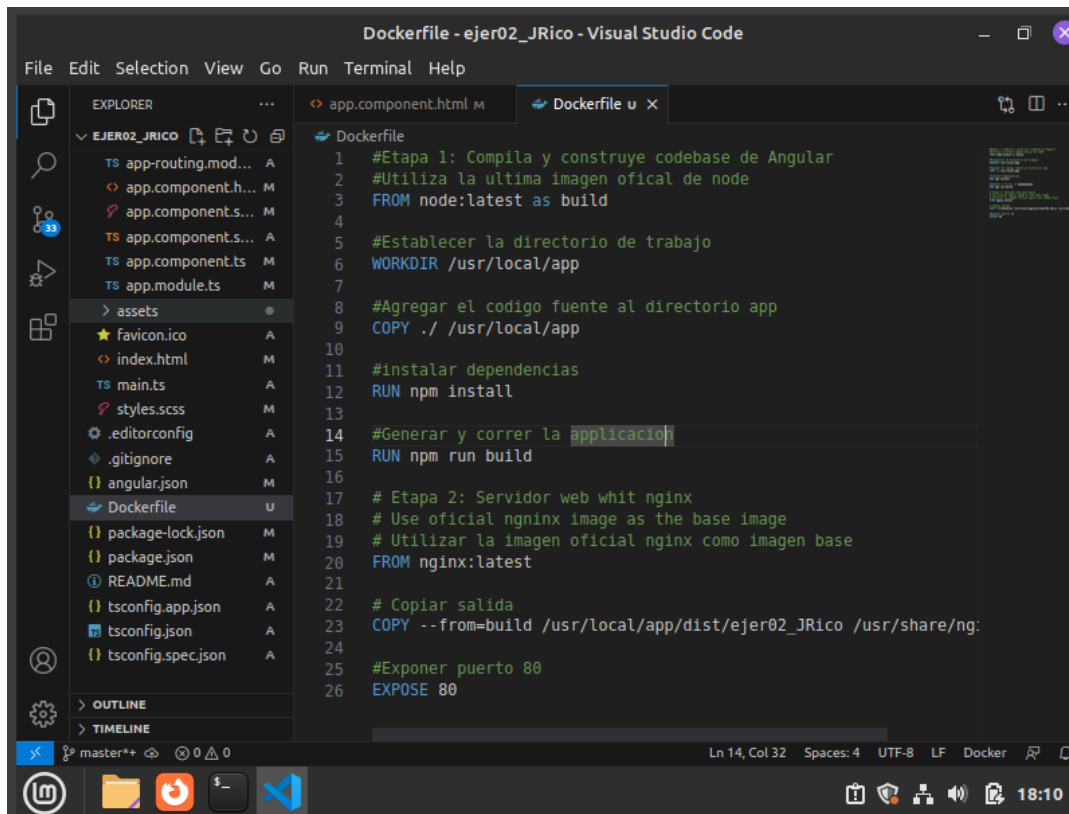
```
Linux [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda

george@george-tumbado: ~/Unidad 4/Ejer02_JRico
Archivo Editar Ver Buscar Terminal Ayuda

Warning: The current version of Node (20.4.0) is not supported by Angular.
george@george-tumbado:~/Unidad 4/Ejer02_JRico$ ng new ejer02_JRico
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? SCSS [
https://sass-lang.com/documentation/syntax#scss
]
CREATE ejer02_JRico/README.md (1065 bytes)
CREATE ejer02_JRico/.editorconfig (274 bytes)
CREATE ejer02_JRico/.gitignore (548 bytes)
CREATE ejer02_JRico/angular.json (2904 bytes)
CREATE ejer02_JRico/package.json (1043 bytes)
CREATE ejer02_JRico/tsconfig.json (901 bytes)
CREATE ejer02_JRico/tsconfig.app.json (263 bytes)
CREATE ejer02_JRico/tsconfig.spec.json (273 bytes)
CREATE ejer02_JRico/.vscode/extensions.json (130 bytes)
CREATE ejer02_JRico/.vscode/launch.json (470 bytes)
CREATE ejer02_JRico/.vscode/tasks.json (938 bytes)
CREATE ejer02_JRico/src/main.ts (214 bytes)
CREATE ejer02_JRico/src/favicon.ico (948 bytes)
CREATE ejer02_JRico/src/index.html (297 bytes)
CREATE ejer02_JRico/src/styles.scss (80 bytes)
CREATE ejer02_JRico/src/app/app-routing.module.ts (245 bytes)
CREATE ejer02_JRico/src/app/app.module.ts (393 bytes)
CREATE ejer02_JRico/src/app/app.component.scss (0 bytes)
CREATE ejer02_JRico/src/app/app.component.html (23115 bytes)
CREATE ejer02_JRico/src/app/app.component.spec.ts (1009 bytes)
CREATE ejer02_JRico/src/app/app.component.ts (217 bytes)
CREATE ejer02_JRico/src/assets/.gitkeep (0 bytes)
! Installing packages (npm)...
```

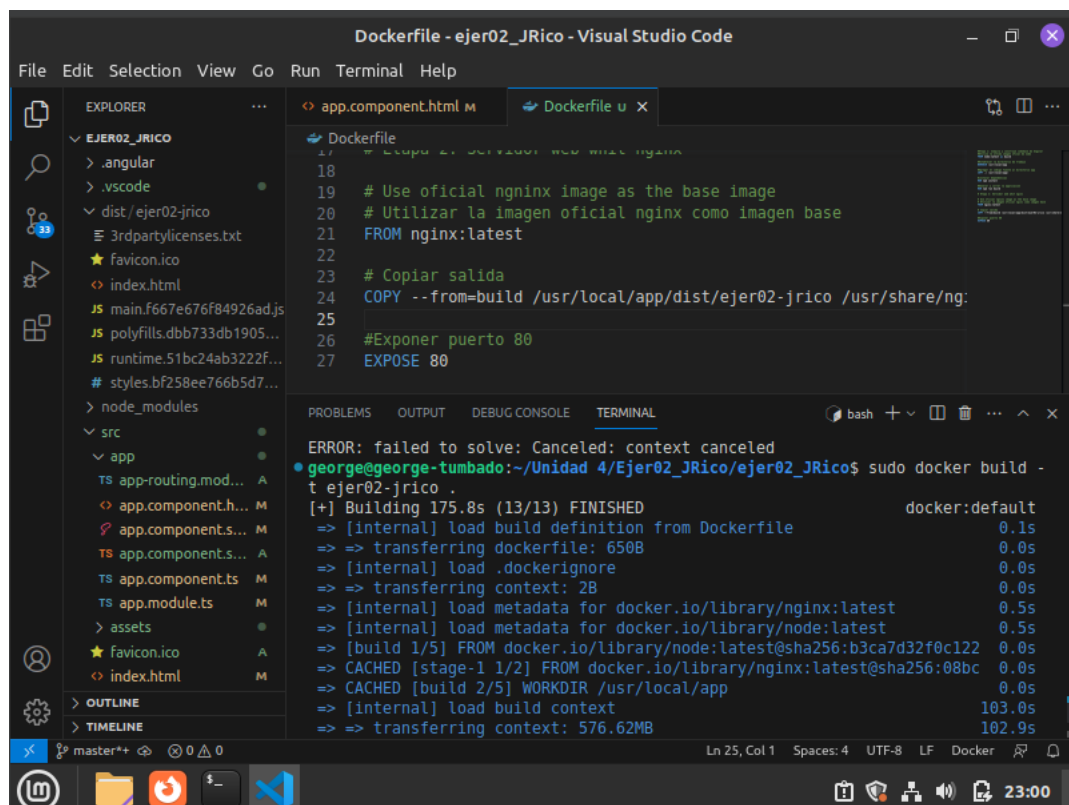
Iniciar el servidor de la aplicación recién creada.





```
1 #Etapa 1: Compila y construye codebase de Angular
2 #Utiliza la ultima imagen oficial de node
3 FROM node:latest as build
4
5 #Establecer la directorio de trabajo
6 WORKDIR /usr/local/app
7
8 #Agregar el codigo fuente al directorio app
9 COPY ./ /usr/local/app
10
11 #instalar dependencias
12 RUN npm install
13
14 #Generar y correr la aplicacion
15 RUN npm run build
16
17 # Etapa 2: Servidor web whit nginx
18 # Use oficial nginx image as the base image
19 # Utilizar la imagen oficial nginx como imagen base
20 FROM nginx:latest
21
22 # Copiar salida
23 COPY --from=build /usr/local/app/dist/ejer02_JRico /usr/share/nginx/html
24
25 #Exponer puerto 80
26 EXPOSE 80
```

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



```
ERROR: failed to solve: Canceled: context canceled
george@george-tumbado:~/Unidad 4/Ejer02_JRico/ejer02_JRico$ sudo docker build -t ejer02-jrico .
[+] Building 175.8s (13/13) FINISHED
=> [internal] load build definition from Dockerfile 0.1s
=> => transferring dockerfile: 650B 0.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/nginx:latest 0.5s
=> [internal] load metadata for docker.io/library/node:latest 0.5s
=> [build 1/5] FROM docker.io/library/node:latest@sha256:b3ca7d32f0c122 0.0s
=> CACHED [stage-1 1/2] FROM docker.io/library/nginx:latest@sha256:08bc 0.0s
=> CACHED [build 2/5] WORKDIR /usr/local/app 0.0s
=> [internal] load build context 103.0s
=> => transferring context: 576.62MB 102.9s
```

Dockerfile - ejer02_JRico - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

- EJER02_JRICO
 - .angular
 - .vscode
 - dist/ejer02-jrico
 - 3rdpartylicenses.txt
 - favicon.ico
 - index.html
 - main.f667e67f84926ad.js
 - polyfills.dbb733db1905...
 - runtime.51bc24ab3222f...
 - styles.bf258ee766b5d7...
 - node_modules
 - src
 - app
 - app-routing.mod...
 - app.component.h... M
 - app.component.s... M
 - app.component.ts M
 - app.module.ts M
 - assets
 - favicon.ico A
 - index.html M
 - OUTLINE
 - TIMELINE

Dockerfile

```
18 # Use oficial ngninx image as the base image
19 # Utilizar la imagen oficial nginx como imagen base
20 FROM nginx:latest
21
22 # Copiar salida
23 COPY --from=build /usr/local/app/dist/ejer02-jrico /usr/share/ng:
24
25 #Exponer puerto 80
26 EXPOSE 80
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

bash

```
=> [internal] load build context 103.0s
=> => transferring context: 576.62MB 102.9s
=> [build 3/5] COPY ./ /usr/local/app/ 17.7s
=> [build 4/5] RUN npm install 6.9s
=> [build 5/5] RUN npm run build 46.1s
=> [stage-1 2/2] COPY --from=build /usr/local/app/dist/ejer02-jrico /us 0.3s
=> exporting to image 0.5s
=> => exporting layers 0.4s
=> => writing image sha256:8486592ded96069570fb16ded9b6d71d8722cf2c1ecf 0.0s
=> => naming to docker.io/library/ejer02-jrico 0.1s
• george@george-tumbado:~/Unidad 4/Ejer02_JRico/ejer02_JRico$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ejer02-jrico latest 8486592ded96 2 minutes ago 187MB
hello-world latest 9c7a54a9a43c 2 months ago 13.3kB
• george@george-tumbado:~/Unidad 4/Ejer02_JRico/ejer02_JRico$
```

Ln 25, Col 1 Spaces: 4 UTF-8 LF Docker 23:01

Linux [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

Dockerfile - ejer02_JRico - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

- EJER02_JRICO
 - .angular
 - .vscode
 - dist/ejer02-jrico
 - 3rdpartylicenses.txt
 - favicon.ico
 - index.html
 - main.f667e67f84926ad.js
 - polyfills.dbb733db1905...
 - runtime.51bc24ab3222f...
 - styles.bf258ee766b5d7...
 - node_modules
 - src
 - app
 - app-routing.mod...
 - app.component.h... M
 - app.component.s... M
 - app.component.ts M
 - app.module.ts M
 - assets
 - favicon.ico A
 - index.html M
 - OUTLINE
 - TIMELINE

Dockerfile

```
18 # Use oficial ngninx image as the base image
19 # Utilizar la imagen oficial nginx como imagen base
20 FROM nginx:latest
21
22 # Copiar salida
23 COPY --from=build /usr/local/app/dist/ejer02-jrico /usr/share/ng:
24
25 #Exponer puerto 80
26 EXPOSE 80
```

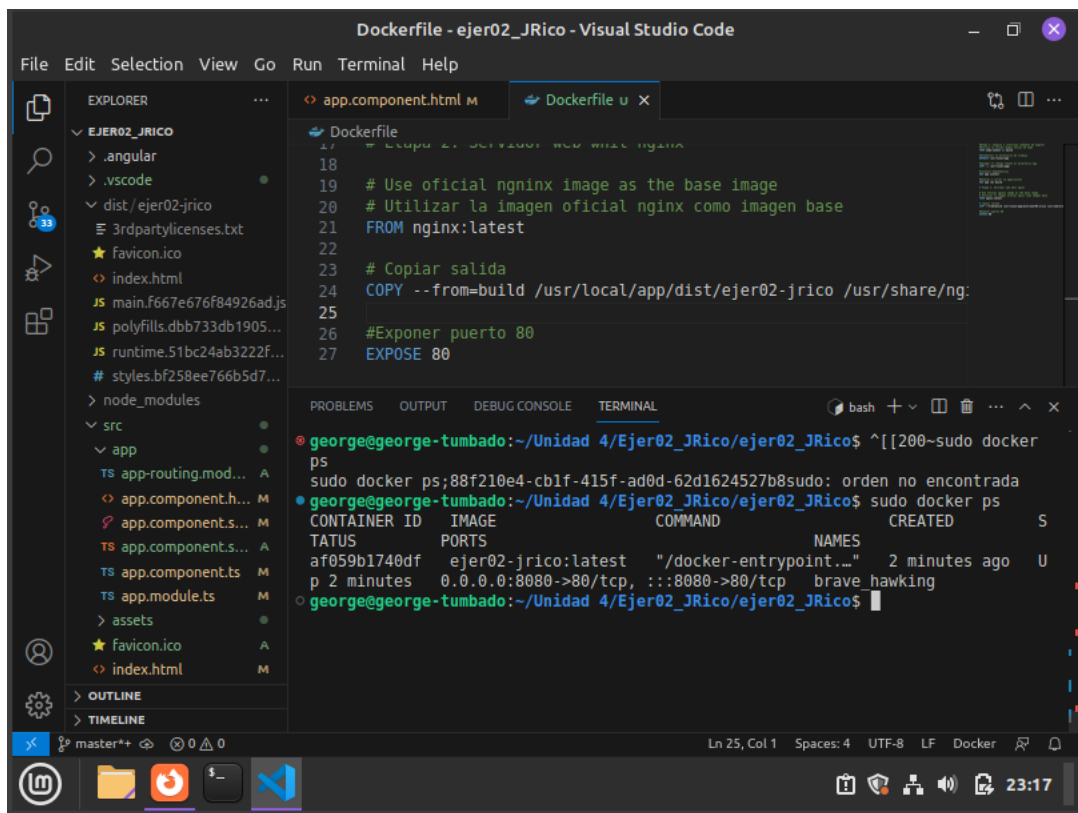
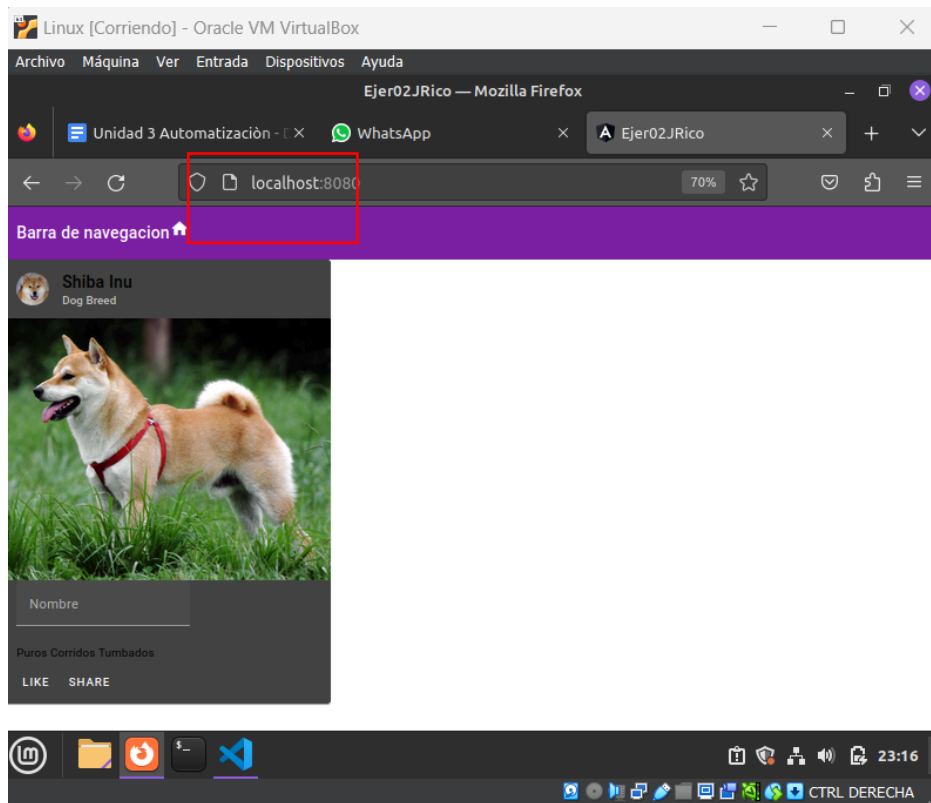
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

bash

```
=> CACHED [build 4/5] RUN npm install 0.0s
=> CACHED [build 5/5] RUN npm run build 0.0s
=> CACHED [stage-1 2/2] COPY --from=build /usr/local/app/dist/ejer02-jr 0.0s
=> exporting to image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:8486592ded96069570fb16ded9b6d71d8722cf2c1ecf 0.0s
=> => naming to docker.io/library/ejer02-jrico 0.0s
• george@george-tumbado:~/Unidad 4/Ejer02_JRico/ejer02_JRico$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ejer02-jrico latest 8486592ded96 9 minutes ago 187MB
hello-world latest 9c7a54a9a43c 2 months ago 13.3kB
• george@george-tumbado:~/Unidad 4/Ejer02_JRico/ejer02_JRico$ sudo docker run -d
-p 8080:80 ejer02-jrico:latest
af059b1740df89b9f1ca5cf4237ef5ea8c455a898cd644392ddc7f5dd5ebc911
• george@george-tumbado:~/Unidad 4/Ejer02_JRico/ejer02_JRico$
```

Ln 25, Col 1 Spaces: 4 UTF-8 LF Docker 23:16

CTRL DERECHA



Dockerfile - ejer02_JRico - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

- EJER02_JRICO
 - .angular
 - .vscode
 - dist/ejer02-jrico
 - 3rdpartylicenses.txt
 - favicon.ico
 - index.html
 - main.f667e676f84926ad.js
 - polyfills.dbb733db1905...
 - runtime.51bc24ab3222f...
 - styles.bf258ee766b5d7...
 - node_modules
 - src
 - app
 - app-routing.mod...
 - app.component.h...
 - app.component.s...
 - app.component.ts
 - app.module.ts
 - assets
 - favicon.ico
 - index.html
 - OUTLINE
 - TIMELINE

Dockerfile

```
17 # Copiar salida
18
19 # Use oficial nginx image as the base image
20 # Utilizar la imagen oficial nginx como imagen base
21 FROM nginx:latest
22
23 # Copiar salida
24 COPY --from=build /usr/local/app/dist/ejer02-jrico /usr/share/ng:
25
26 #Exponer puerto 80
27 EXPOSE 80
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

bash

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
ejer02-jrico	latest	8486592ded96	21 minutes ago	187MB
hello-world	latest	9c7a54a9a43c	2 months ago	13.3kB

george@george-tumbado:~/Unidad 4/Ejer02_JRico/ejer02_JRico\$ sudo docker rm 8486592ded96

Error response from daemon: No such container: 8486592ded96

george@george-tumbado:~/Unidad 4/Ejer02_JRico/ejer02_JRico\$ sudo docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	S
af059b1740df	ejer02-jrico:latest	"/docker-entrypoint..."	6 minutes ago	U
p 6 minutes	0.0.0.0:8080->80/tcp, :::8080->80/tcp	brave hawking		

george@george-tumbado:~/Unidad 4/Ejer02_JRico/ejer02_JRico\$ sudo docker stop af059b1740df

af059b1740df

george@george-tumbado:~/Unidad 4/Ejer02_JRico/ejer02_JRico\$

Conectado a la red cableada

Dockerfile - ejer02_JRico - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

- EJER02_JRICO
 - .angular
 - .vscode
 - dist/ejer02-jrico
 - 3rdpartylicenses.txt
 - favicon.ico
 - index.html
 - main.f667e676f84926ad.js
 - polyfills.dbb733db1905...
 - runtime.51bc24ab3222f...
 - styles.bf258ee766b5d7...
 - node_modules
 - src
 - app
 - app-routing.mod...
 - app.component.h...
 - app.component.s...
 - app.component.ts
 - app.module.ts
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Dockerfile

```
17 # Copiar salida
18
19 # Use oficial nginx image as the base image
20 # Utilizar la imagen oficial nginx como imagen base
21 FROM nginx:latest
22
23 # Copiar salida
24 COPY --from=build /usr/local/app/dist/ejer02-jrico /usr/share/ng:
25
26 #Exponer puerto 80
27 EXPOSE 80
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

bash

george@george-tumbado:~/Unidad 4/Ejer02_JRico/ejer02_JRico\$ sudo docker rm 8486592ded96

Error response from daemon: No such container: 8486592ded96

george@george-tumbado:~/Unidad 4/Ejer02_JRico/ejer02_JRico\$ sudo docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	S
af059b1740df	ejer02-jrico:latest	"/docker-entrypoint..."	6 minutes ago	U
p 6 minutes	0.0.0.0:8080->80/tcp, :::8080->80/tcp	brave hawking		

george@george-tumbado:~/Unidad 4/Ejer02_JRico/ejer02_JRico\$ sudo docker stop af059b1740df

af059b1740df

george@george-tumbado:~/Unidad 4/Ejer02_JRico/ejer02_JRico\$ sudo docker rm af059b1740df

af059b1740df

george@george-tumbado:~/Unidad 4/Ejer02_JRico/ejer02_JRico\$

Conectado a la red cableada