

Descargando la imagen si existe en docker hub

```
hack4u@Hack4u: ~/Documentos/unidad4/ejer02_juliojohan
[sudo] contraseña para hack4u:
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:a13ec89cdf897b3e551bd9f89d499db6ff3a7f44c5b9eb8bca40da20eb4ea1fa
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$
```

Nuestros imágenes

```
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ sudo docker pull hello-world
[sudo] contraseña para hack4u:
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:a13ec89cdf897b3e551bd9f89d499db6ff3a7f44c5b9eb8bca40da20eb4ea1fa
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ sudo docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
hello-world   latest   9c7a54a9a43c   2 months ago   13.3kB
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$
```

Mostrando el mensaje de hola mundo

```
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ sudo docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
hello-world   latest   9c7a54a9a43c   2 months ago   13.3kB
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ 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

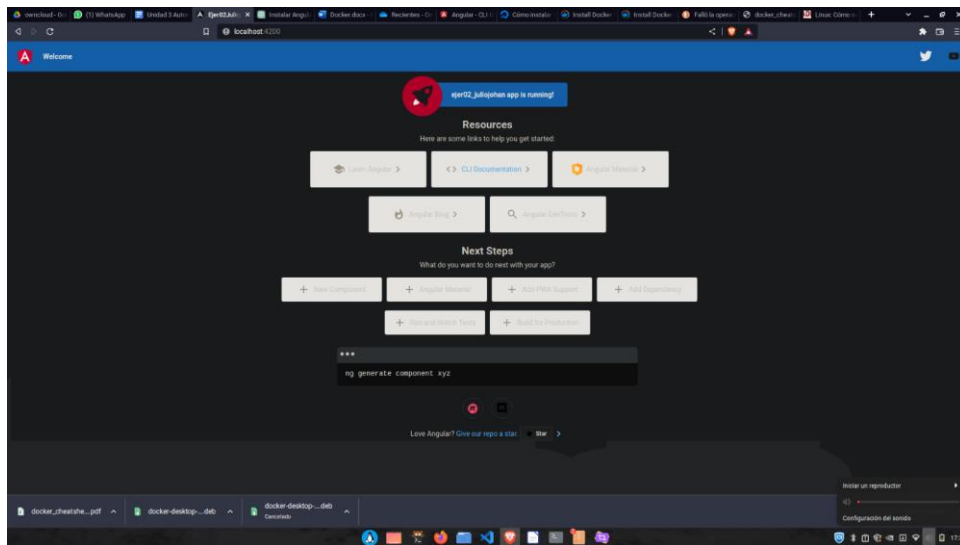
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$
```

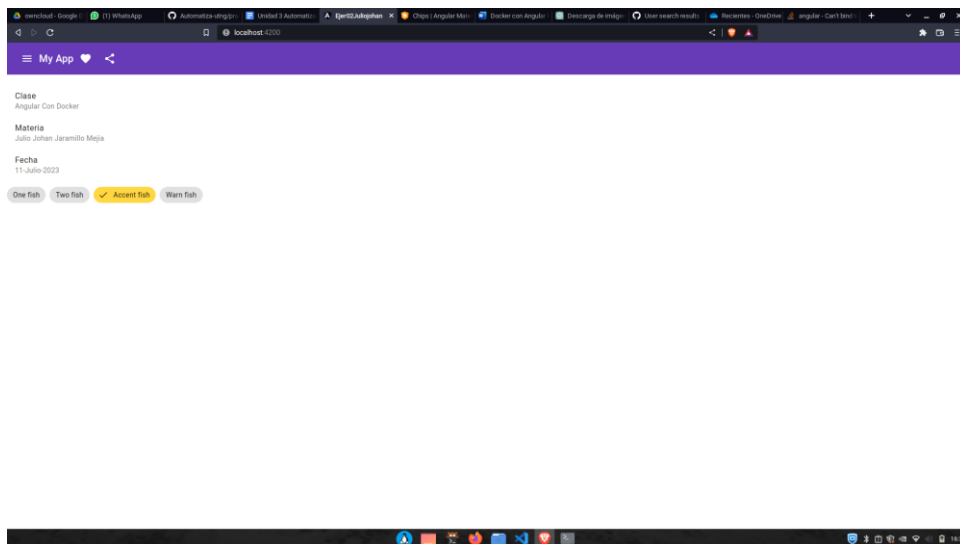
Creando la app en angular

```
hack4u@Hack4u: ~/Documents/unidad4
drwxr-xr-x 2 hack4u hack4u 4096 sep 25 2022 Escritorio
drwxr-xr-x 2 hack4u hack4u 4096 jun 6 19:38 Imágenes
drwxrwxr-x 2 hack4u hack4u 4096 oct 19 2022 keys_pedro
drwxrwxr-x 2 hack4u hack4u 4096 oct 19 2022 keys_ser01
drwxr-xr-x 2 hack4u hack4u 4096 sep 25 2022 Música
drwxr-xr-x 2 hack4u hack4u 4096 sep 25 2022 Plantillas
drwxrwxr-x 6 hack4u hack4u 4096 oct 1 2022 powerlevel10k
drwxr-xr-x 2 hack4u hack4u 4096 sep 25 2022 Público
drwxrwxr-x 2 hack4u hack4u 4096 oct 1 2022 Respositorios
drwxrwxr-x 3 hack4u hack4u 4096 oct 2 2022 Steam
drwxr-xr-x 2 hack4u hack4u 4096 jun 6 18:48 Videos
drwxrwxr-x 2 hack4u hack4u 4096 jul 11 17:05 'VirtualBox VMs'
hack4u@Hack4u:~$ cd Document
bash: cd: Document: No existe el archivo o el directorio
hack4u@Hack4u:~$ cd Documentos/
hack4u@Hack4u:~/Documentos$ ls
clavePublica  isos          seguridad
claves        JulioJohan.ova 'Ubuntu Server Julio Johan.ova'
clienti.ovpn  keys          'Unidad_3_Patrones de Diseño_OK.pdf'
generarCont  password      vpn2
107          programas
hack4u@Hack4u:~/Documentos$ mkdir unidad4
hack4u@Hack4u:~/Documentos$ cd unidad4/
hack4u@Hack4u:~/Documents/unidad4$ ng new ejer02_juliojohan
? 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_juliojohan/README.md (1070 bytes)
CREATE ejer02_juliojohan/.editorconfig (274 bytes)
CREATE ejer02_juliojohan/.gitignore (548 bytes)
```

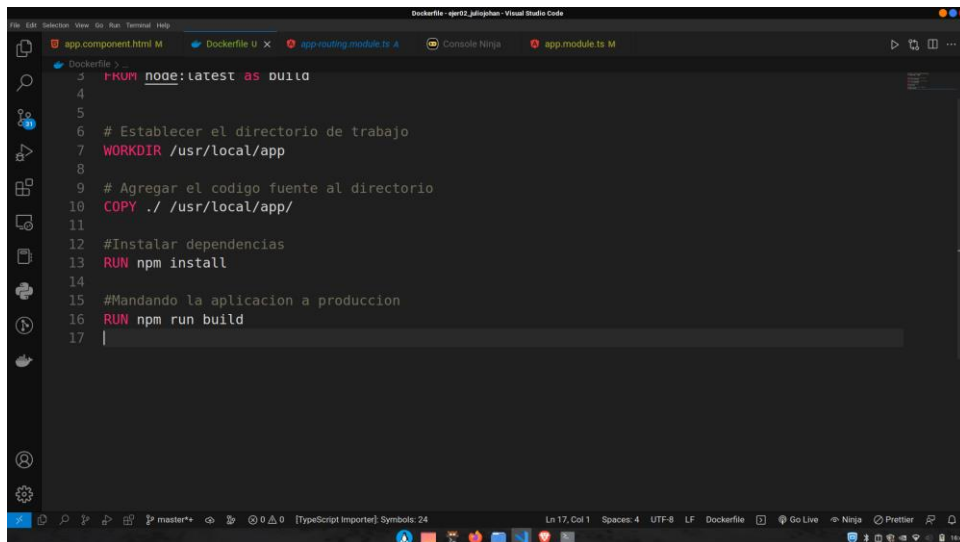
Iniciando Servidor



Modificando nuestra app con angular material

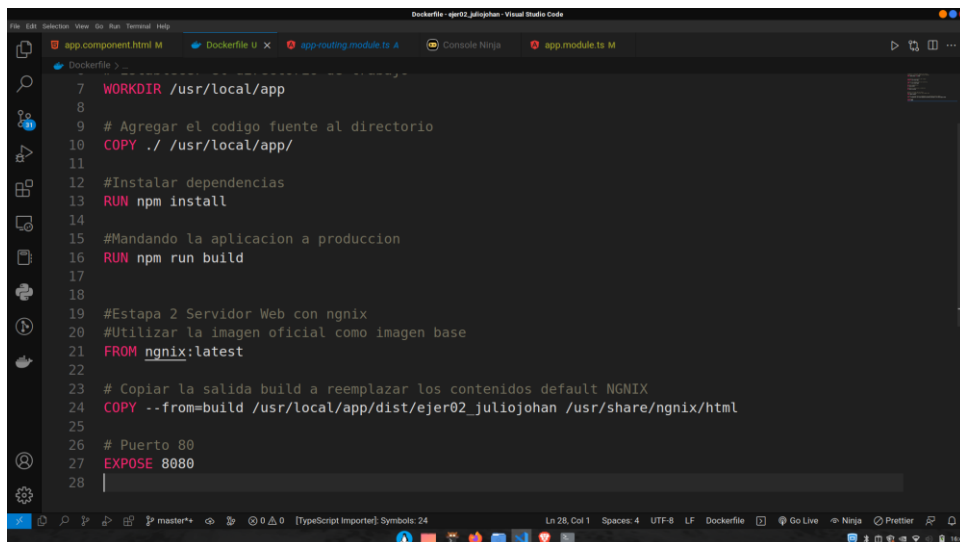


Etapas 1 para la configuracion de docker



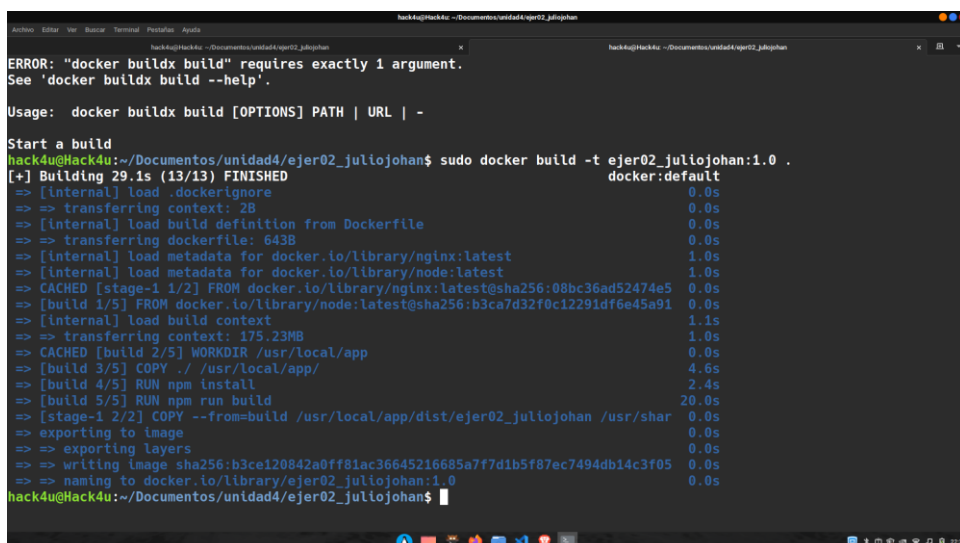
```
1 FROM node:latest as build
2
3 # Establecer el directorio de trabajo
4 WORKDIR /usr/local/app
5
6 # Agregar el código fuente al directorio
7 COPY ./ /usr/local/app/
8
9 # Instalar dependencias
10 RUN npm install
11
12 # Mandando la aplicación a producción
13 RUN npm run build
```

Parte 2 Nginx



```
7 WORKDIR /usr/local/app
8
9 # Agregar el código fuente al directorio
10 COPY ./ /usr/local/app/
11
12 # Instalar dependencias
13 RUN npm install
14
15 # Mandando la aplicación a producción
16 RUN npm run build
17
18 # Etapa 2 Servidor Web con nginx
19 # Utilizar la imagen oficial como imagen base
20 FROM nginx:latest
21
22 # Copiar la salida build a reemplazar los contenidos default NGINX
23 COPY --from=build /usr/local/app/dist/ejer02_juliojohan /usr/share/nginx/html
24
25 # Puerto 80
26 EXPOSE 8080
```

Creacion de la imagen correctamente

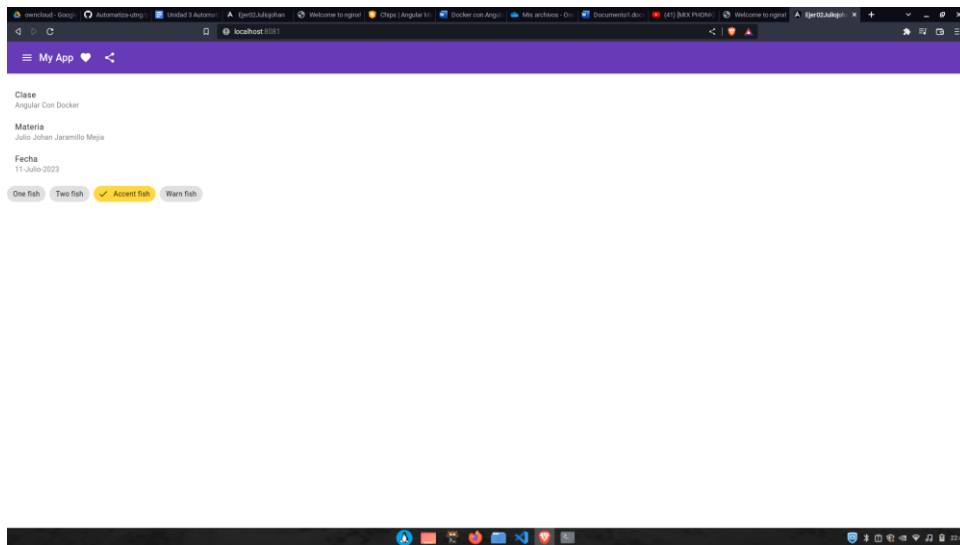


```
ERROR: "docker buildx build" requires exactly 1 argument.
See 'docker buildx build --help'.

Usage: docker buildx build [OPTIONS] PATH | URL | -

Start a build
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ sudo docker build -t ejer02_juliojohan:1.0 .
[+] Building 29.1s (13/13) FINISHED
=> [internal] load .dockerignore 0.0s
=> transferring context: 2B 0.0s
=> [internal] load build definition from Dockerfile 0.0s
=> transferring dockerfile: 643B 0.0s
=> [internal] load metadata for docker.io/library/nginx:latest 1.0s
=> [internal] load metadata for docker.io/library/node:latest 1.0s
=> CACHED [stage-1 1/2] FROM docker.io/library/nginx:latest@sha256:08bc36ad52474e5 0.0s
=> [build 1/5] FROM docker.io/library/node:latest@sha256:b3ca7d32f0c12291df6e45a91 0.0s
=> [internal] load build context 1.1s
=> transferring context: 175.23MB 1.0s
=> CACHED [build 2/5] WORKDIR /usr/local/app 0.0s
=> [build 3/5] COPY ./ /usr/local/app/ 4.6s
=> [build 4/5] RUN npm install 2.4s
=> [build 5/5] RUN npm run build 20.0s
=> [stage-1 2/2] COPY --from=build /usr/local/app/dist/ejer02_juliojohan /usr/share 0.0s
=> exporting layers 0.0s
=> writing image sha256:b3ce120842a0ff81ac36645216685a7f7d1b5f87ec7494db14c3f05 0.0s
=> naming to docker.io/library/ejer02_juliojohan:1.0 0.0s
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$
```

Corriendo el proyecto en el puerto 8081



Deteniendo el demonio que esta corriendo el proeycto en docker primero utilizamos docker ps

Para ver cuales estan corriendo y pararlos antes de eliminarlos

```
hack4u@Hack4u: ~/Documentos/unidad4/ejer02_juliojohan
1b7255bdfc05704ee275ec9c7cd100685c74af44b8e90bea123a84d422a692a5
docker: Error response from daemon: driver failed programming external connectivity on endpoint vigorous_joliot (0573a
92010cf6f84db8eda20b0533ac1d21ffa6942a3e2df352a34115b7e4ca3): Bind for 0.0.0.0:8080 failed: port is already allocated.
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ sudo docker run -d -p 8081:80 ejer02_juliojohan:1.0
e4ad44bd393af062a725f17edfce73c9a3b4ddcb00ad0ca36d49a8fbcf65c90
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ sudo docker rmi ejer02_juliojohan:1.0
Error response from daemon: conflict: unable to remove repository reference "ejer02_juliojohan:1.0" (must force) - con
tainer 1b7255bdfc05 is using its referenced image b3ce120842a0
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ sudo docker stop ejer02_juliojohan
Error response from daemon: No such container: ejer02_juliojohan
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ sudo docker stop ejer02_juliojohan:1.0
Error response from daemon: No such container: ejer02_juliojohan:1.0
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
e4ad44bd393a   ejer02_juliojohan:1.0   "/docker-entrypoint..." 3 minutes ago   Up 3 minutes   0.0.0.0:8081->80/tcp,
:::8081->80/tcp
622528b3dd2a   576bfd6f7d7f7   "/docker-entrypoint..." 10 minutes ago   Up 10 minutes   0.0.0.0:8080->80/tcp,
:::8080->80/tcp
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ docker stop e4ad44bd393a
e4ad44bd393a
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
622528b3dd2a   576bfd6f7d7f7   "/docker-entrypoint..." 11 minutes ago   Up 11 minutes   0.0.0.0:8080->80/tcp,
:::8080->80/tcp
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ docker stop 622528b3dd2a
622528b3dd2a
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$
```

Eliminamos el proyecto con --force

```
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ docker stop 622528b3dd2a
622528b3dd2a
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ docker rmi ejer02_juliojohan:1.0
Error response from daemon: conflict: unable to remove repository reference "ejer02_juliojohan:1.0" (must force) - con
tainer 1b7255bdfc05 is using its referenced image b3ce120842a0
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ docker rmi e4ad44bd393a
Error response from daemon: No such image: e4ad44bd393a:latest
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS        NAMES
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ejer02_juliojohan   1.0       b3ce120842a0   11 minutes ago   188MB
<none>         <none>    576bfd6f7d7f7   6 hours ago     188MB
hello-world     latest    9c7a54a9a43c   2 months ago    13.3kB
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ docker rmi b3ce120842a0
Error response from daemon: conflict: unable to delete b3ce120842a0 (must be forced) - image is being used by stopped
container 1b7255bdfc05
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ docker image prune
WARNING! This will remove all dangling images.
Are you sure you want to continue? [y/N] n
Total reclaimed space: 0B
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ docker rmi b3ce120842a0 --force
Untagged: ejer02_juliojohan:1.0
Deleted: sha256:b3ce120842a0ff81ac36645216685a7f7d1b5f07ac7494db14c3f05da1d61f2a
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
<none>         <none>    576bfd6f7d7f7   6 hours ago     188MB
hello-world     latest    9c7a54a9a43c   2 months ago    13.3kB
hack4u@Hack4u:~/Documentos/unidad4/ejer02_juliojohan$
```