

```

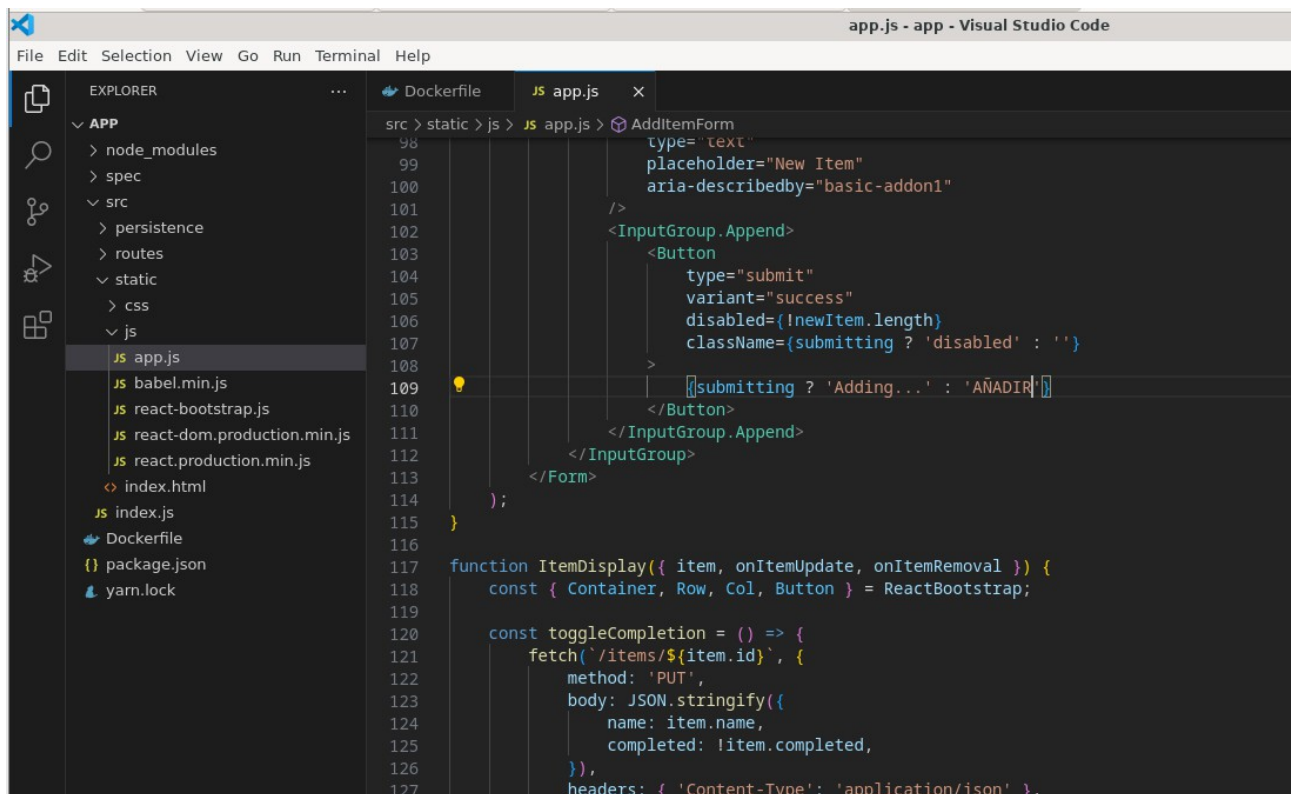
castillejo@DAW2:~/Descargas$ ls
app      'code_1.82.2-1694671812_amd64(1).deb'
app.zip  code_1.82.2-1694671812_amd64.deb
castillejo@DAW2:~/Descargas$ cd app
castillejo@DAW2:~/Descargas/app$ ls
Dockerfile package.json spec src yarn.lock
castillejo@DAW2:~/Descargas/app$ ls -l
total 160
-rw-r--r-- 1 castillejo castillejo 101 Sep 28 09:18 Dockerfile
-rw-r--r-- 1 castillejo castillejo 645 Nov 25 2022 package.json
drwxr-xr-x 4 castillejo castillejo 4096 Dic 22 2022 spec
drwxr-xr-x 5 castillejo castillejo 4096 Dic 22 2022 src
-rw-r--r-- 1 castillejo castillejo 147266 Nov 25 2022 yarn.lock
castillejo@DAW2:~/Descargas/app$ cat Dockerfile
FROM node:18-alpine
WORKDIR /app
COPY . .
RUN yarn install --production
CMD ["node", "src/index.js"]
castillejo@DAW2:~/Descargas/app$ ^[[200~docker run -dp 3000:3000 \
> -w /app -v "$(pwd):/app" \
> node:18-alpine \
> sh -c "yarn install && yarn run dev"
bash: '$\E[200~docker': orden no encontrada
castillejo@DAW2:~/Descargas/app$ docker run -dp 3000:3000 -w /app -v "$(pwd):/app" node:18-alpine sh -c "yarn install && yarn run dev"
Unable to find image 'node:18-alpine' locally
18-alpine: Pulling from library/node
96526aa774ef: Pull complete
824de1d006d4: Pull complete
76c34934b331: Pull complete
fdef87f136ff: Pull complete
Digest: sha256:a315556d82ef54561e54fca7d8ee333382de183d4e56841dcefc05b55310f46
Status: Downloaded newer image for node:18-alpine
5f9f7fefb9a2e33c750555138dbfb6cdf80512ea9e0d73c2cc5d6b7b9920eefc
castillejo@DAW2:~/Descargas/app$

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castillejo@DAW2:~/Descargas/app$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
5f9f7fefb9a2   node:18-alpine  "docker-entrypoint.s..." 5 minutes ago  Up 5 minutes  0.0.0.0:3000->3000/tcp, :::3000->3000/tcp  great_nobel
f8e936f91c38   docker/getting-started  "/docker-entrypoint..." 14 minutes ago  Up 14 minutes  0.0.0.0:80->80/tcp, :::80->80/tcp      adoring_rhodes
castillejo@DAW2:~/Descargas/app$ Docker ps
bash: Docker: orden no encontrada
castillejo@DAW2:~/Descargas/app$ docker logs great_nobel
yarn install v1.22.19
[1/4] Resolving packages...
[2/4] Fetching packages...
[3/4] Linking dependencies...
[4/4] Building fresh packages...
Done in 19.84s.
yarn run v1.22.19
$ nodemon src/index.js
[nodemon] 2.0.20
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node src/index.js`
Using sqlite database at /etc/todos/todo.db
Listening on port 3000
castillejo@DAW2:~/Descargas/app$

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```
app.js - app - Visual Studio Code
File Edit Selection View Go Run Terminal Help

EXPLORER
  APP
    node_modules
    spec
    src
    persistence
    routes
    static
    css
    js
      app.js
      babel.min.js
      react-bootstrap.js
      react-dom.production.min.js
      react.production.min.js
    index.html
    index.js
    Dockerfile
    package.json
    yarn.lock

src > static > js > JS app.js > AddItemForm
98     type="text"
99     placeholder="New Item"
100    aria-describedby="basic-addon1"
101  />
102    <InputGroup.Append>
103      <Button
104        type="submit"
105        variant="success"
106        disabled={!newItem.length}
107        className={submitting ? 'disabled' : ''}
108      >
109        {submitting ? 'Adding...' : 'AÑADIR'}
110      </Button>
111    </InputGroup.Append>
112  </InputGroup>
113 </Form>
114 );
115 }
116
117 function ItemDisplay({ item, onItemUpdate, onItemRemoval }) {
118   const { Container, Row, Col, Button } = ReactBootstrap;
119
120   const toggleCompletion = () => {
121     fetch(`/items/${item.id}`, {
122       method: 'PUT',
123       body: JSON.stringify({
124         name: item.name,
125         completed: !item.completed,
126       }),
127       headers: { 'Content-Type': 'application/json' },
```

```
castillejo@DAW2: ~/Descargas/app$ docker run -dp 3000:3000 -w /app -v "$(pwd)
:/app" node:18-alpine sh -c "yarn install && yarn run dev"
76aae7b6e610c0b392e57a8fcd8a7e962c4b02c408defd784c95cb4103fa56f9
castillejo@DAW2: ~/Descargas/app$
```

```
castillejo@DAW2:~$ cd Descargas/
castillejo@DAW2:~/Descargas$ cd app
castillejo@DAW2:~/Descargas/app$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
eb7671f428ef   docker/getting-started   "/docker-entrypoint..." 5 minutes ago   Up 5 minutes   0.0.0.0:80->80/tcp, :::80->80/tcp   tuto
castillejo@DAW2:~/Descargas/app$ docker network create
"docker network create" requires exactly 1 argument.
See 'docker network create --help'.

Usage:  docker network create [OPTIONS] NETWORK

Create a network
castillejo@DAW2:~/Descargas/app$ docker network create todo-app
5d0408ac3b62782a34915f58c643399e9c40212a291c22c370bb811de19fb632
castillejo@DAW2:~/Descargas/app$ docker network ls
NETWORK ID     NAME      DRIVER    SCOPE
082a373c2c20   bridge   bridge    local
7ffef6489d6d   host     host      local
4e78d0e9148f   none     null      local
5d0408ac3b62   todo-app  bridge    local
castillejo@DAW2:~/Descargas/app$ docker network create todo-app
Error response from daemon: network with name todo-app already exists
```

```

castillejo@DAW2:~/Descargas/app$ docker network create todo-app
Error response from daemon: network with name todo-app already exists
castillejo@DAW2:~/Descargas/app$ docker run -d \
  --network todo-app --network-alias mysql \
  -v todo-mysql-data:/var/lib/mysql \
  -e MYSQL_ROOT_PASSWORD=secret \
  -e MYSQL_DATABASE=todos \
  mysql:8.0
Unable to find image 'mysql:8.0' locally
8.0: Pulling from library/mysql
5262579e8e45: Pull complete
c6f87bacd0dd: Pull complete
581ee7db3e65: Pull complete
6d5c555a4100: Pull complete
51f4afa7a279: Pull complete
d9e414f0b7c6: Pull complete
aab3a444c469: Pull complete
aab51168fe3a: Pull complete
2a63757e7c9c: Pull complete
830e4b0cc0bc: Pull complete
cc0cd1f61ed7: Pull complete
Digest: sha256:4753043f21f0297253b35a5809a0ec3f12597e8dbbeb709647307edc943ea7b1
Status: Downloaded newer image for mysql:8.0
74996d3b4b1b97aa2e846b37cbf1b8206065c6bbf3bfde4f3c3b02e2e8901d94
castillejo@DAW2:~/Descargas/app$ docker ps

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CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
74996d3b4b1b	mysql:8.0	"docker-entrypoint.s..."	5 seconds ago	Up 4 seconds	3306/tcp, 33060/tcp	lucid_hertz
eb7671f428ef	docker/getting-started	"/docker-entrypoint..."	11 minutes ago	Up 11 minutes	0.0.0.0:80->80/tcp, :::80->80/tcp	tuto

```

castillejo@DAW2:~/Descargas/app$ docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                NAMES
74996d3b4b1b   mysql:8.0 "docker-entrypoint.s..." 2 minutes ago Up 2 minutes    3306/tcp, 33060/tcp   lucid_hertz
eb7671f428ef   docker/getting-started "/docker-entrypoint..." 13 minutes ago Up 13 minutes    0.0.0.0:80->80/tcp, :::80->80/tcp   tuto
castillejo@DAW2:~/Descargas/app$ docker exec -it lucid_hertz mysql -p
Enter password:
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)

```

```

castillejo@DAW2:~/Descargas/app$ docker ps

```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
74996d3b4b1b	mysql:8.0	"docker-entrypoint.s..."	2 minutes ago	Up 2 minutes	3306/tcp, 33060/tcp	lucid_hertz
eb7671f428ef	docker/getting-started	"/docker-entrypoint..."	13 minutes ago	Up 13 minutes	0.0.0.0:80->80/tcp, :::80->80/tcp	tuto

```

castillejo@DAW2:~/Descargas/app$ docker exec -it lucid_hertz mysql -p
Enter password:
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)
castillejo@DAW2:~/Descargas/app$ docker exec -it lucid_hertz mysql -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.34 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
| todos |
+-----+
5 rows in set (0.00 sec)

mysql> ^DBye
castillejo@DAW2:~/Descargas/app$ docker ps

```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
74996d3b4b1b	mysql:8.0	"docker-entrypoint.s..."	9 minutes ago	Up 9 minutes	3306/tcp, 33060/tcp	lucid_hertz

```

castillejo@DAW2:~/Descargas/app$ docker run -it --network todo-app nicolaka/netshoot
Unable to find image 'nicolaka/netshoot:latest' locally
latest: Pulling from nicolaka/netshoot
3a49fdb3b6a5: Pull complete
f08cc7654b42: Pull complete
bacdb080ad6d: Pull complete
df75a2676b1d: Pull complete
d30ac41fb6a9: Pull complete
8f3eebe79603: Pull complete
086410b5650d: Pull complete
4f4fb700ef54: Pull complete
5a7fe97d184f: Pull complete
a6d1b2d7a50e: Pull complete
599ae1c27c63: Pull complete
dd5e50b27eb9: Pull complete
2681a5bf3176: Pull complete
2517e0a2f862: Pull complete
7b5061a1528d: Pull complete
Digest: sha256:a7c92e1a2fb9287576a16e107166fee7f9925e15d2c1a683dbb1f4370ba9bfe8
Status: Downloaded newer image for nicolaka/netshoot:latest
      dP      dP      dP
      88      88      88
88d888b. .d8888b. d8888P .d8888b. 88d888b. .d8888b. .d8888b. d8888P
88' `88 88oooo8 88 Y8oooo. 88' `88 88' `88 88' `88 88
88 88 88. ... 88 88 88 88. 88 88. 88 88
dP dP `88888P' dP `88888P' dP dP `88888P' `88888P' dP

Welcome to Netshoot! (github.com/nicolaka/netshoot)
Version: 0.11

```

```

6c2012702ed5 ~$ dig mysql

; <<>> DiG 9.18.13 <<>> mysql
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 37040
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 0

;; QUESTION SECTION:
;mysql.                IN      A

;; ANSWER SECTION:
mysql.                 600     IN      A      172.18.0.2

;; Query time: 3 msec
;; SERVER: 127.0.0.11#53(127.0.0.11) (UDP)
;; WHEN: Thu Oct 05 07:48:37 UTC 2023
;; MSG SIZE rcvd: 44

```

```

6c2012702ed5 ~$ ping mysql
PING mysql (172.18.0.2) 56(84) bytes of data.
64 bytes from mysql.todo-app (172.18.0.2): icmp_seq=1 ttl=64 time=0.156 ms
64 bytes from mysql.todo-app (172.18.0.2): icmp_seq=2 ttl=64 time=0.132 ms
64 bytes from mysql.todo-app (172.18.0.2): icmp_seq=3 ttl=64 time=0.074 ms
64 bytes from mysql.todo-app (172.18.0.2): icmp_seq=4 ttl=64 time=0.128 ms
64 bytes from mysql.todo-app (172.18.0.2): icmp_seq=5 ttl=64 time=0.120 ms
64 bytes from mysql.todo-app (172.18.0.2): icmp_seq=6 ttl=64 time=0.077 ms

```

```
castillejo@DAW2:~/Descargas/app$ docker run -dp 3000:3000 \
-w /app -v "$(pwd):/app" \
--network todo-app \
-e MYSQL_HOST=mysql \
-e MYSQL_USER=root \
-e MYSQL_PASSWORD=secret \
-e MYSQL_DB=todos \
node:18-alpine \
sh -c "yarn install && yarn run dev"
2818147d06fb102913b37129e19f46c864e9a40f3bc7b283459dcdf312c1d7e5
```

La mayoría de los comandos es de esta página: <http://localhost/tutorial/multi-container-apps/>

Me puede faltar algunos comandos que no he podido visualizar de Ango...