

### 1. Creamos una nueva carpeta y entramos a ella

```
katherine-bello@katherine-bello-VirtualBox:~/mi-web$ cd ../
katherine-bello@katherine-bello-VirtualBox:~$ ls
Desktop  Downloads  Music      proyecto  snap       Videos
Documents  mi-web    Pictures  Public    Templates
katherine-bello@katherine-bello-VirtualBox:~$ mkdir mi-mongo
katherine-bello@katherine-bello-VirtualBox:~$ cd mi-mongo
katherine-bello@katherine-bello-VirtualBox:~/mi-mongo$
```

### 2. Creamos el dockerfile y determinamos las especificaciones

```
nano
FROM mongo

ENV MONGO_INITDB_ROOT_USERNAME=admin
ENV MONGO_INITDB_ROOT_PASSWORD=123
```

- FROM mongo → parte de la imagen oficial de MongoDB.
- ENV → define variables de entorno (se usan para configurar Mongo).

### 3. Construimos la imagen

```
katherine-bello@katherine-bello-VirtualBox:~/mi-mongo$ nano dockerfile
katherine-bello@katherine-bello-VirtualBox:~/mi-mongo$ docker build -t mi_mongo .
[+] Building 84.3s (3/4)                                docker:default
=> [internal] load .dockerignore                        0.2s
=> => transferring context: 2B                          0.0s
=> [1/1] FROM docker.io/library/mongo:latest@sha256:bf41aa48a1cc0ccc8e6071236 82.0s
=> => resolve docker.io/library/mongo:latest@sha256:bf41aa48a1cc0ccc8e6071236a 0.1s
=> => sha256:ac94e3ac917412d8a10edc7998b6738003623e7ef5a9a5cf3 7.86kB / 7.86kB 0.0s
=> => sha256:cb5873cd7a26a2b747df5b7eadfed347ad9368815507c7c0 1.22kB / 1.22kB 1.2s
=> => sha256:3419d9690417e50013b163edf91da2f6d71c7a1106baef5d0 1.51MB / 1.51MB 1.4s
=> => sha256:bf41aa48a1cc0ccc8e6071236acfc428b7110ec2cf14b47c8 3.25kB / 3.25kB 0.0s
=> => sha256:16bf2dbfb79bc1989eaa73dcc9ea6adb13d161e778090ef0e 2.48kB / 2.48kB 0.0s
=> => sha256:b71466b94f266b4c2e0881749670e5b88ab7a0fd4ca4a4c 29.72MB / 29.72MB 4.0s
=> => sha256:e42dc4f47d526f54063a397f2a77493e29eae006c529cb3e6 1.13MB / 1.13MB 1.7s
=> => sha256:9456a0c857afd529171a59ea2504a83d7b96233ef4491d2642147 116B / 116B 1.8s
=> => sha256:aa87afe3fd4afd95afe1b632ed27942f9b9cbdaaac733abd650d7 263B / 263B 2.0s
=> => sha256:790ca897521682affa7dc5bd9eca61ab5ddac711ce31 266.22MB / 266.22MB 38.5s
=> => sha256:03fa8d8d1d95eb6fbdfe875727a34cbc09d053dcaaa31e0 5.00kB / 5.00kB 2.5s
=> => extracting sha256:b71466b94f266b4c2e0881749670e5b88ab7a0fd4ca4a4cdf26cb 19.3s
=> => extracting sha256:cb5873cd7a26a2b747df5b7eadfed347ad9368815507c7c00bad9 0.1s
```

- -t: tag
- Verificamos

```
katherine-bello@katherine-bello-VirtualBox:~/mi-mongo$ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
mi-web	latest	c1d5fde60ef0	5 hours ago	192MB
mi_mongo	latest	f9b48b994aae	3 days ago	909MB
nginx	latest	ad5708199ec7	11 days ago	192MB
hello-world	latest	1b44b5a3e06a	2 weeks ago	10.1kB

```
katherine-bello@katherine-bello-VirtualBox:~/mi-mongo$
```

#### 4. Ejecutamos el contenedor

```
katherine-bello@katherine-bello-VirtualBox:~/mi-mongo$ docker run -d -p 27017:27017 --name mongo
-container mi_mongo
c27b966614b5dde608c36773cb7b9c3e8aa5c54ef7428f86cd00706c87254f89
katherine-bello@katherine-bello-VirtualBox:~/mi-mongo$
```

#### Verificamos

```
katherine-bello@katherine-bello-VirtualBox:~/mi-mongo$ docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
c27b966614b5	mi_mongo	"docker-entrypoint.s..."	About a minute ago	Exited (1) About a minute ago
f0222daaafd	mi-web	"/docker-entrypoint..."	5 hours ago	Up 5 hours
842ec5f9edf0	nginx	"/docker-entrypoint..."	5 hours ago	Up 5 hours
7e9393476706	hello-world	"/hello"	4 days ago	Exited (0) 4 days ago

```
katherine-bello@katherine-bello-VirtualBox:~/mi-mongo$
```

#### Error versión.

Se soluciona creándolo de la siguiente manera, especificando la versión de mongo, para este caso 4.4

```
docker run -d -p 27017:27017 --name mongo-container \
-e MONGO_INITDB_ROOT_USERNAME=admin \
-e MONGO_INITDB_ROOT_PASSWORD=123 \
mongo:4.4
```

```
katherine-bello@katherine-bello-VirtualBox:~/mi-mongo$ docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
f0222daaafd	mi-web	"/docker-entrypoint..."	5 hours ago	Up 5 hours	0.0.0.0:8081->80/tcp, [::]:8081->80/tcp	upbeat_austin
842ec5f9edf0	nginx	"/docker-entrypoint..."	5 hours ago	Up 5 hours	0.0.0.0:8080->80/tcp, [::]:8080->80/tcp	mi-servidor
7e9393476706	hello-world	"/hello"	4 days ago	Exited (0) 4 days ago		zen_allen

```
katherine-bello@katherine-bello-VirtualBox:~/mi-mongo$ docker run -d -p 27017:27017 --name mongo-container -e MONGO_INITDB_ROOT_USERNAME=admin -e MONGO_INITDB_ROOT_PASSWORD=123 mongo:4.4
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
06c5ec7eca6f	mongo:4.4	"docker-entrypoint.s..."	3 seconds ago	Up 3 seconds	0.0.0.0:27017->27017/tcp, [::]:27017->27017/tcp	mongo-container
f0222daaafd	mi-web	"/docker-entrypoint..."	5 hours ago	Up 5 hours	0.0.0.0:8081->80/tcp, [::]:8081->80/tcp	upbeat_austin
842ec5f9edf0	nginx	"/docker-entrypoint..."	5 hours ago	Up 5 hours	0.0.0.0:8080->80/tcp, [::]:8080->80/tcp	mi-servidor

```
katherine-bello@katherine-bello-VirtualBox:~/mi-mongo$
```