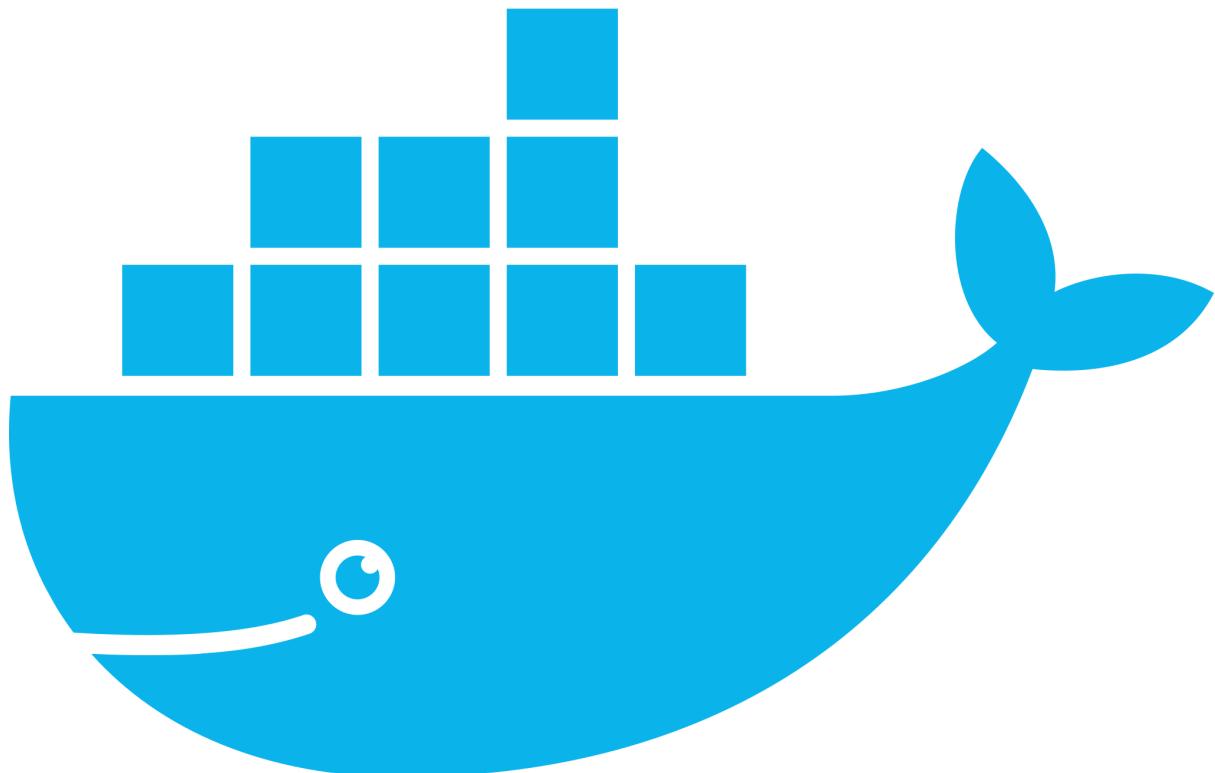


Docker-compose

Docker-compose

1.	Nos vamos a la ruta de la carpeta.	2
2.	Crear la red Docker (una sola vez).	2
3.	Construir la imagen de la API.	3
4.	Preparar la API REST	3
5.	Archivo docker-compose-yml	3
6.	Despliegue con Docker Compose.	4



1. Nos vamos a la ruta de la carpeta.

```
C:\Users\javie\Documents\DAW\2DAW\Despliegue\03-docker-compose>
```

2. Crear la red Docker (una sola vez).

```
MINGW64:/c/Users/javie/Documents/DAW/2DAW/Despliegue/03-docker-com... — □ X
javie@Manzano MINGW64 ~
$ cd Documents/DAW/2DAW/Despliegue/03-docker-compose/
javie@Manzano MINGW64 ~/Documents/DAW/2DAW/Despliegue/03-docker-compose (main)
$ docker network create adaitsnetwork
```

```
javie@Manzano MINGW64 ~/Documents/DAW/2DAW/Despliegue/03-docker-compose (main)
$ docker network create adaitsnetwork
48d4128c7e4d6ad0ffeebdf6035facbe5619f763b5ccd237303e382b0444878f
```

```
C:\Users\javie\Documents\DAW\2DAW\Despliegue\03-docker-compose>docker network ls
NETWORK ID      NAME          DRIVER    SCOPE
ba4b3f7beb3d   02-depliegue-docker_wp_net  bridge    local
4ba81e864dae   11-unit-test_default       bridge    local
48d4128c7e4d   adaitsnetwork           bridge    local
f0acffffe3610   bridge          bridge    local
6c8812f07c89   host            host     local
c4a352eca144   network-redis        bridge    local
6bd56b8ed898   none            null     local
8d7083efe2f8   wordpress_network     bridge    local
d46e867aa46d   wp_net           bridge    local
```

```
C:\Users\javie\Documents\DAW\2DAW\Despliegue\03-docker-compose>dir nginx
El volumen de la unidad C no tiene etiqueta.
El número de serie del volumen es: 801D-0C04

Directorio de C:\Users\javie\Documents\DAW\2DAW\Despliegue\03-docker-compose\nginx

09/11/2025  21:05    <DIR>          .
09/11/2025  21:06    <DIR>          ..
09/11/2025  21:05                  117 Dockerfile
09/11/2025  21:05                  991 web.html
              2 archivos          1.108 bytes
              2 dirs   183.222.161.408 bytes libres
```

3. Construir la imagen de la API.

```
C:\Users\javier\Documents\DAW\2DAW\Despliegue\03-docker-compose>docker build -t nginx-daw ./nginx      docker:desktop-linux
[+] Building 6.5s (5/8)
=> [internal] load build definition from Dockerfile                                         0.0s
=> => transferring dockerfile: 154B                                                 0.0s
=> [internal] load metadata for docker.io/library/nginx:latest                           1.8s
=> [auth] library/nginx:pull token for registry-1.docker.io                            0.0s
=> [internal] load .dockerrcignore                                                 0.0s
=> => transferring context: 2B                                                 0.0s
=> [1/3] FROM docker.io/library/nginx:latest@sha256:1beed3ca46acebe9d3fb62e9067f03d05d5bfa97a00f30938a0a35805632 4.7s
=> => resolve docker.io/library/nginx:latest@sha256:1beed3ca46acebe9d3fb62e9067f03d05d5bfa97a00f30938a0a35805632 0.0s
=> => sha256:d7ecded7702a5dbf6d0f79a71edc34b534d08f3051980e2c948fba72db3197fc 29.78MB / 29.78MB   2.5s
=> => sha256:1beed3ca46acebe9d3fb62e9067f03d05d5bfa97a00f30938a0a3580563272ad 10.23kB / 10.23kB   0.0s
=> => sha256:bd1578eec775db28fd7f664b182b7e1fb75f1dd09f92d865dababe8525dfe8b 2.29kB / 2.29kB   0.0s
=> => sha256:266626526d42cf7fe5f56b933db3f4c59c0596b7e2c3a556ba5ec4981daf3e9d 29.97MB / 29.97MB   2.7s
=> => sha256:320b0949be89766f7c6a8746f1971021a8e8c84928af00454c0f9c6e38ebf54c 628B / 628B   0.6s
=> => sha256:d261fd19cb63238535ab80d4e1be1d9e7f6c8b5a28a820188968dd3e6f06072d 8.75kB / 8.75kB   0.0s
=> => sha256:d921c57c6a81addac6ca451906699ca6ee8c01fd708805a928181c5370b0a30c 956B / 956B   1.0s
=> => sha256:9def903993e4ef9a3ffaa02bb893b0382768a4d466d51247bff80b119377a1 404B / 404B   1.4s
=> => sha256:52bc359bc9bd74bb3d11b94cf3c6d94bcf9bd2d3e450483fb978124ceddb9ca57 1.21kB / 1.21kB   1.7s
=> => sha256:e2f8e296d9df1dd5e2ddc81e5e758f9762fdb932e982ac6873e36692c3e3c983 1.40kB / 1.40kB   2.0s
```

4. Preparar la API REST

Verificamos que [server.js](#) y Dockerfile están en la carpeta api

```
C:\Users\javier\Documents\DAW\2DAW\Despliegue\03-docker-compose>dir api
El volumen de la unidad C no tiene etiqueta.
El número de serie del volumen es: 801D-0C04

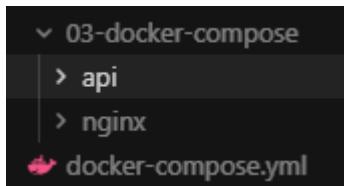
Directorio de C:\Users\javier\Documents\DAW\2DAW\Despliegue\03-docker-compose\api

09/11/2025  21:06    <DIR>          .
09/11/2025  21:06    <DIR>          ..
09/11/2025  20:50            147 Dockerfile
09/11/2025  20:56            308 server.js
                  2 archivos           455 bytes
                  2 dirs   182.977.261.568 bytes libres
```

Construir la imagen api-rest-daw

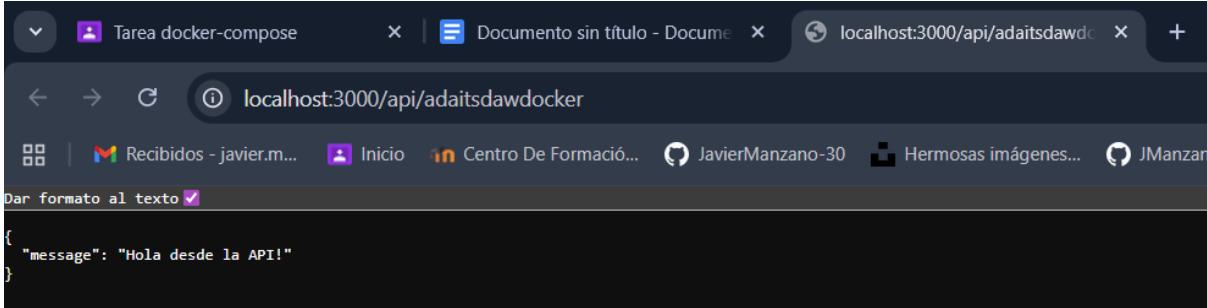
```
C:\Users\javier\Documents\DAW\2DAW\Despliegue\03-docker-compose>docker build -t api-rest-daw ./api      docker:desktop-linux
[+] Building 2.0s (5/9)
=> [internal] load build definition from Dockerfile                                         0.0s
=> => transferring dockerfile: 186B                                                 0.0s
=> [internal] load metadata for docker.io/library/node:18-alpine                         1.8s
=> [auth] library/node:pull token for registry-1.docker.io                            0.0s
=> [internal] load .dockerrcignore                                                 0.0s
=> => transferring context: 2B                                                 0.0s
=> [1/4] FROM docker.io/library/node:18-alpine@sha256:8d6421d663b4c28fd3ebc498332f249011d118945588d0a35cb9bc4b8c 0.1s
=> => resolve docker.io/library/node:18-alpine@sha256:8d6421d663b4c28fd3ebc498332f249011d118945588d0a35cb9bc4b8c 0.0s
=> => sha256:8d6421d663b4c28fd3ebc498332f249011d118945588d0a35cb9bc4b8c 7.67kB / 7.67kB   0.0s
```

5. Archivo docker-compose.yml



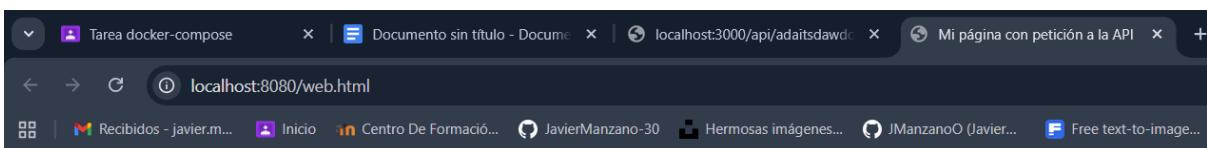
6. Despliegue con Docker Compose.

```
C:\Users\janie\Documents\DAW\2DAW\Despliegue\03-docker-compose>docker-compose up --build
[+] Building 1.8s (22/22) FINISHED
=> [internal] load local bake definitions
--> -- reading from stdin 1.12kB
=> [nginx] resolving provenance for metadata file 0.0s
=> [api] resolving provenance for metadata file 0.0s
time="2025-11-09T21:24:45+01:00" level=warning msg="a network with name adaitsnetwork exists but was not created by compose.\nSet 'external: true' to use an existing network"
[+] Running 2/2
  ✓ api-rest-daw  Built 0.0s
  ✓ nginx-daw    Built 0.0s
network adaitsnetwork was found but has incorrect label com.docker.compose.network set to "" (expected: "adaitsnetwork")
```



The screenshot shows a browser window with three tabs. The active tab is titled 'localhost:3000/api/adaitsdawdock'. The content of the page is a JSON object:

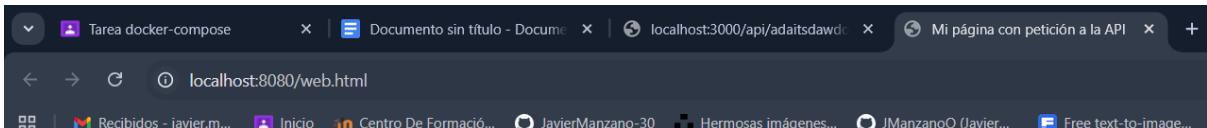
```
{ "message": "Hola desde la API!"}
```



The screenshot shows a browser window with three tabs. The active tab is titled 'localhost:3000/api/adaitsdawdock'. The content of the page is a JSON object:

```
{ "message": "Hola desde la API!"}
```

Mi Página con Petición a la API



The screenshot shows a browser window with three tabs. The active tab is titled 'localhost:3000/api/adaitsdawdock'. The content of the page is a JSON object:

```
{ "message": "Hola desde la API!"}
```



The screenshot shows a browser window with three tabs. The active tab is titled 'localhost:3000/api/adaitsdawdock'. The content of the page is a JSON object:

```
{ "message": "Hola desde la API!"}
```

Mi Página con Petición a la API

Respuesta de la API: Hola desde la API!