

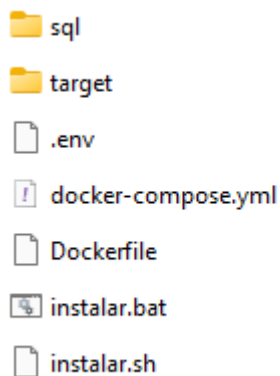
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INTRODUCTION

This guide describes the process needed to be able to use the Z8i API. You will find the files necessary for the installation attached to this manual.

The above-mentioned files are the following:

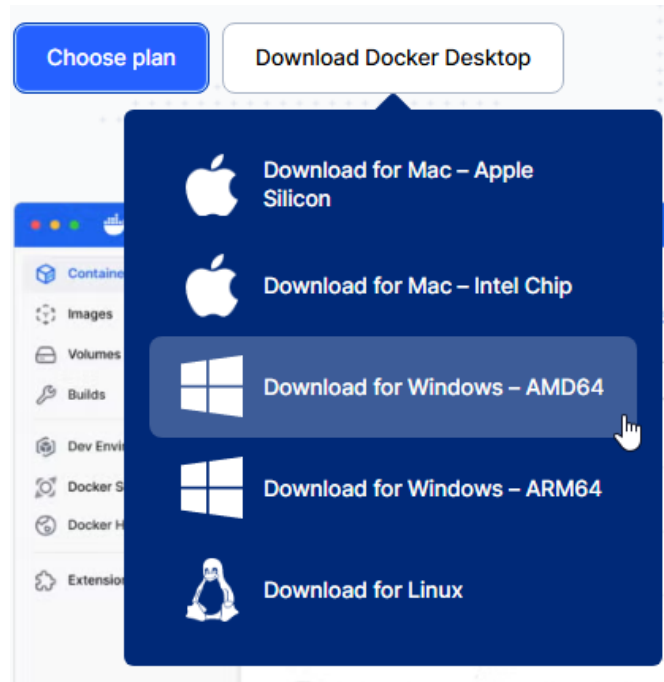


INSTALLATION PROCESS

The first step is to install Docker Desktop. You should use the following link to download the installer files.

<https://www.docker.com/products/docker-desktop/>

Please choose the installer version appropriate for your device, the most common one should be the AMD x86 for Windows.



Once the indicated file is downloaded, we shall continue with the installation process until it's completed.

During the first execution of the software, you will be prompted to accept the Service Agreement Terms.

Docker Subscription Service Agreement

By selecting **accept**, you agree to the [Subscription Service Agreement](#), the [Docker Data Processing Agreement](#), the [Data Privacy Policy](#) and the [Docker AI Supplemental Terms](#).

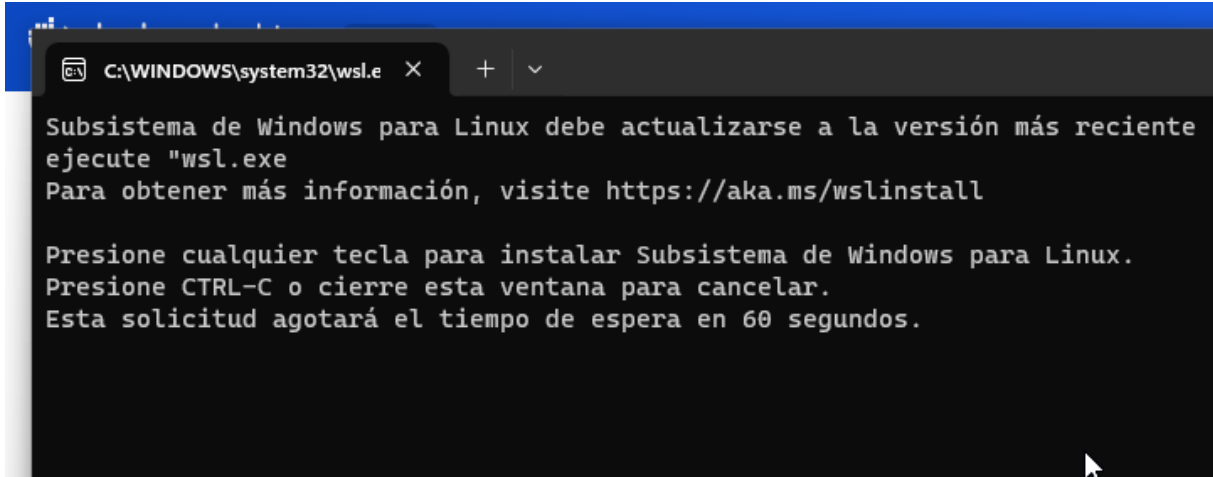
Commercial use of Docker Desktop at a company of more than 250 employees OR more than \$10 million in annual revenue requires a paid subscription (Pro, Team, or Business). [See subscription details](#)

[View Full Terms](#)

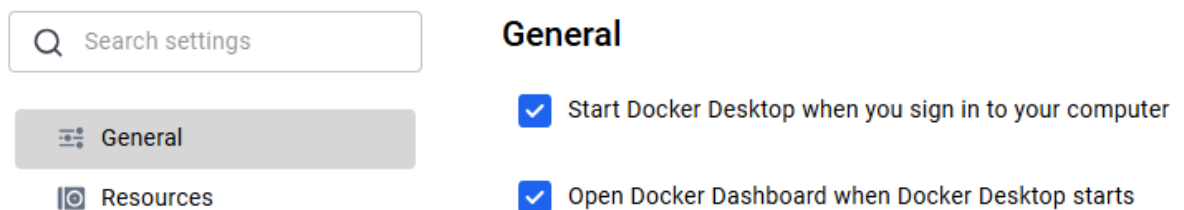
[Accept](#)

[Close](#)

Once accepted, the application will prompt you to install the Windows Subsystem for Linux, press any button to continue with the installation.



Once the installation is completed, Docker desktop will open. Please make sure it is running when the terminal is initiated.



Make sure this option is ticked in the **Configuration -> General**.

INSTALLATION OF API, DATABASE AND phpMyAdmin

Once it is prepared, the tool will allow you to install the API as it will generate the correct environment for its functioning.

The next step will be to execute the instalar.bat file. If you're using Linux, please execute instalar.sh.

Docker will then generate a database, following the scheme we have provided.

```
version: "3.8"

services:
  db:
    image: mysql:8.0
    container_name: open_z8_mysql
    profiles: ["localdb"]
    environment:
      MYSQL_ROOT_PASSWORD: Gram1231
      MYSQL_DATABASE: open_z8
      MYSQL_USER: apiuser
      MYSQL_PASSWORD: Gram1231
    volumes:
      - db_data:/var/lib/mysql
      - ./sql:/docker-entrypoint-initdb.d
    restart: unless-stopped
    ports:
      - "3306:3306"
  api:
    build: .
    container_name: open_z8_api
    env_file: .env
    depends_on:
      - db
    ports:
      - "8080:8080"
    restart: unless-stopped
  phpmyadmin:
    image: phpmyadmin/phpmyadmin:latest
    container_name: open_z8_phpmyadmin
    profiles: ["localdb"]
    depends_on:
      - db
    environment:
      PMA_HOST: db
      PMA_USER: root
      PMA_PASSWORD: Gram1231
      UPLOAD_LIMIT: 64M
    ports:
      - "8081:80"
    restart: unless-stopped

volumes:
  db_data:
```

Take into account that the docker-compose.yml file may define both the database port, its credentials, the port in which API is operating, and the port to connect to phpMyAdmin.

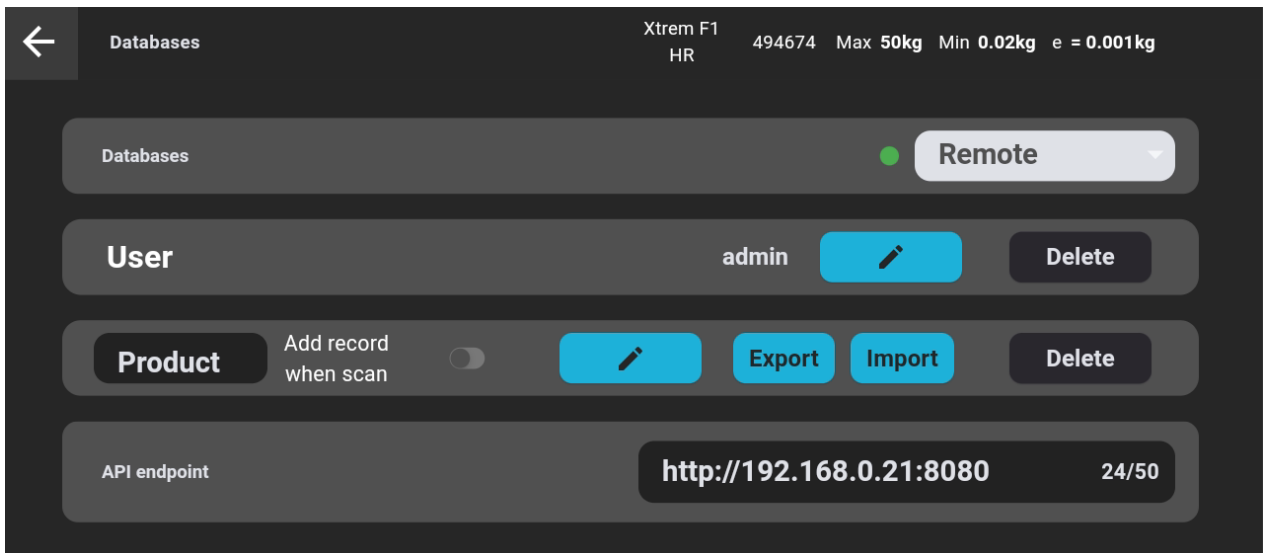
In the API service we can verify that the information necessary for the API to determine which database to connect to is provided in the **.env** file.

```
# =====  
# Configuracion de la base de datos  
# =====  
  
SPRING_DATASOURCE_URL=jdbc:mysql://db:3306/open_z8  
SPRING_DATASOURCE_USERNAME=apiuser  
SPRING_DATASOURCE_PASSWORD=Gram1231
```

If you want to update the app.jar with the API, it's sufficient to change the file and execute the instalar.bat file again, or the instalar.sh file in case of Linux.

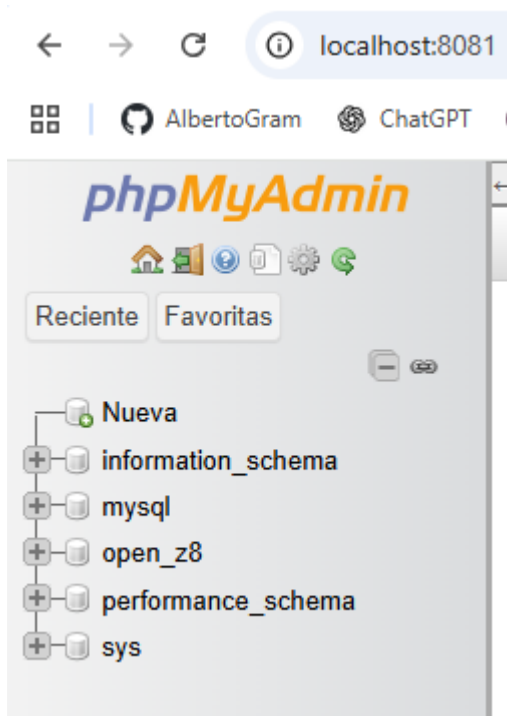
Finally, in order to issue petitions, we execute them in the url:

http://{your_server_address}:{port}



In order to connect to phpMyAdmin, in order to interact with the database of the MySQL container, you open the browser window and go to the following endpoint:

<http://localhost:8081>



ERRORS

If, during Docker start up, you see the following message:



Virtualization support not detected

Docker Desktop failed to start because virtualisation support wasn't detected. Contact your IT admin to enable virtualization or check system requirements.

[View system requirements](#) ↗

This is because virtualization is not activated on your device. Please activate it to solve this issue.

If you are using Docker database, please make sure that the endpoint points to db, not to localhost:

```
# =====  
# Configuracion de la base de datos  
# =====  
  
SPRING_DATASOURCE_URL=jdbc:mysql://db:3306/open_z8  
SPRING_DATASOURCE_USERNAME=apiuser  
SPRING_DATASOURCE_PASSWORD=Gram1231
```

On the other hand, if you want to use a database which is located on the same device as Docker, use `host.docker.internal`, as the `localhost` (127.0.0.1) will understand it as the container, not as your host.

```
# =====  
# Configuracion de la base de datos  
# =====  
  
SPRING_DATASOURCE_URL=jdbc:mysql://host.docker.internal:3306/open_z8  
SPRING_DATASOURCE_USERNAME=root  
# SPRING DATASOURCE PASSWORD=Gram1231
```

Please remember that if a service, such as WAMP or another one is active using the 3306 port, it will no longer be possible to use the same port for the local Docker database, it will be necessary to end the said service or use a different port, editing the docker-compose file.



Gram Precision S.L.

Travesía Industrial, 11 · 08907 Hospitalet de Llobregat · Barcelona (Spain)

Tel. +34 93 300 33 32

www.gram-group.com