

Georouting API Docker Image Testing Guide

1. Installing and Verifying Docker

1.1. Installing Docker on Windows

1. Go to the official Docker download page:
<https://www.docker.com/get-started>
 2. Download the appropriate version for your operating system.
 3. Run the installer and follow the instructions (default settings are recommended).
 4. Launch Docker Desktop after installation.
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2. Checking Docker Version

Ensure Docker is installed correctly.

1. Open a **Command Prompt** or **PowerShell** (Windows: Win + R, type cmd, then press Enter).
2. Run the following command:

```
docker --version
```

Expected output:

Example:

```
C:\Users\oltvanyid>docker --version  
Docker version 27.5.1, build 9f9e405
```

3. If you don't get a similar result, check the installation.
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3. Downloading and Running the Georouting API Docker Image

3.1. Pulling the Docker Image

The following command pulls the latest `latest-master` version from the Nexus repository:

```
docker pull private-registry.internal.dpdgroup.com/geor_docker_fullldb:latest-master
```

This downloads the required Docker image containing the **latest GeoRDB version**.

```
Git CMD - docker pull private x + v
C:\Users\oltvanyid>docker pull private-registry.internal.dpdgroup.com/geor_docker_fulldb:latest-master
latest-master: Pulling from geor_docker_fulldb
5a7813e071bf: Pulling fs layer
a2ff804eb32a: Downloading 14.56MB/22.94MB
da5768705e3b: Pulling fs layer
0b4fff2c206c: Waiting
3d2700d3f64b: Waiting
20d8b1009ced: Waiting
4f4fb700ef54: Waiting
f0febb4f5ba7: Waiting
c1cfe57dfb57: Waiting
7726269d1e6d: Waiting
```

3.2. Running the Docker Image

1. Run the following command to **start the Georouting API**:

```
docker run -p 8080:8080 -d --name latest-master-grapi private-registry.internal.dpdgroup.com/geor_docker_fulldb:latest-master
```

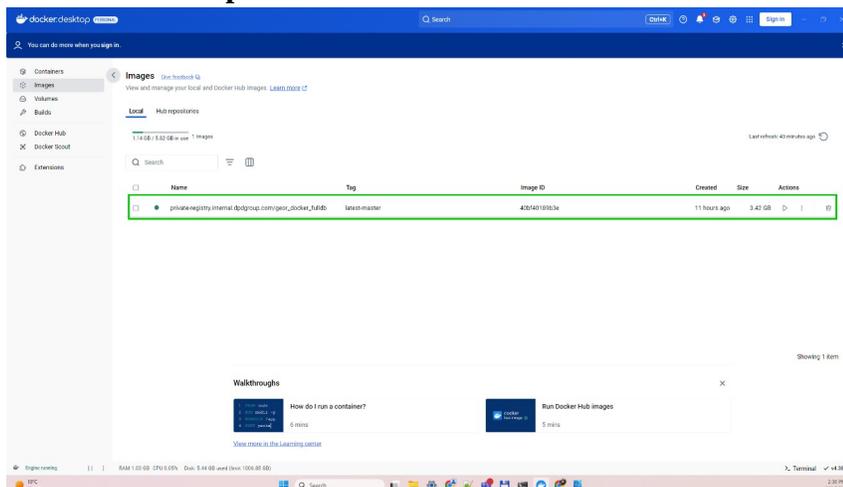
2. Verify that the image is **running**:

```
docker ps
```

Expected output:

A list of running containers, where you should see `latest-master-grapi`.

Or check in the Docker Desktop:



4. Verifying the API via Swagger UI

1. **Open a browser** and go to:

`http://localhost:8080/GeoRouting-WS-R/swagger-ui/index.html#/Utility/getImportedList`

2. **Once Swagger UI is loaded**, find the `/georouting/calculateroute/getImportedList` endpoint.
3. **Click the “Try it out” button**, then hit **“Execute”**.
4. **Check if the expected GeoRDB version is present** in the response. The expected version should be something like:

```
"version": "24120202"
```

5. Overview of Swagger Endpoints

Below is a **summary** of the API endpoints and their functions.

Endpoint	Function
POST <code>/georouting/calculateroute/returnNOPSSet</code>	Returns NOPS elements for a given Origin BU, So Code, and As Code .
POST <code>/georouting/calculateroute/isUpToDate</code>	Checks if the application contains the latest imported version.
POST <code>/georouting/calculateroute/getVersionPrefix</code>	Retrieves the version prefix for a specific date.
POST <code>/georouting/calculateroute/getLastDbValidT o</code>	Gets the validity end date of the last imported version.
POST <code>/georouting/calculateroute/getImportedList</code>	Lists all imported versions.
POST <code>/georouting/calculateroute/getDbVersionFor Date</code>	Retrieves the highest version for a given date.
POST <code>/georouting/calculateroute/checkDigit</code>	Calculates the check digit character for a given input.

6. Troubleshooting Tips

If the container does not start:

- Check **running containers**:
`docker ps -a`
- If the container is in "**Exited**" status, check logs:
`docker logs latest-master-grapi`

If the API is not accessible in the browser:

1. Verify that the **Docker container is running** (`docker ps`).
2. Try restarting the container:
`docker restart latest-master-grapi`
3. Ensure the correct port is being used:
`docker inspect latest-master-grapi | grep "8080"`

If the GeoRDB version is incorrect or missing:

- Re-run the `/georouting/calculateroute/getImportedList` endpoint and check the response.
- If necessary, **pull and run the latest image**:
`docker pull private-registry.internal.dpdgroup.com/geor_docker_fullldb:latest-master`
`docker stop latest-master-grapi`
`docker rm latest-master-grapi`
`docker run -p 8080:8080 -d --name latest-master-grapi private-registry.internal.dpdgroup.com/geor_docker_fullldb:latest-master`