Query Craft User Installation Guide

Step 1: Install Docker

Download Docker

- Visit the [Docker Installation Page](#) to download the appropriate Docker version for your operating system.

Install Docker

- Run the downloaded Docker executable file (.exe) and follow the on-screen installation instructions.
- **Note**: A system restart will be required to complete the installation.

Verify Docker Installation

- Open a command prompt or terminal window.
- Run the following command to check if Docker is up and running:
    - docker ps
- You should see a list of running Docker containers, indicating that Docker is properly installed.
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- **Troubleshooting**: If the docker ps command does not work, you need to troubleshoot and fix the Docker installation before moving forward.

Step 2: Run Query Craft

Download Query Craft

- Download the query-craft zip file.

Extract the Zip File

- Extract the contents of the zip file to a convenient location on your computer.
- Open the docker-compose.yml file if you want to make any changes to any of the credentials or if any of the ports are unavailable.

Run the Script

- Inside the extracted folder, locate the script file(**run-query-craft**-youroperatingsystem) appropriate for your operating system (e.g., run-query-craft-mac.sh for Linux/Mac, run-query-craft-windows.bat for Windows).
- Right-click on the script file and select "Run as Administrator"(on Windows) or sh run-query-craft-mac.sh(on MAC Terminal) to start the service.

Query Craft

- **Construct Query Craft URL**: Replace <port number> with the identified port number in http://localhost:<port number>.
  port number: In the Docker Compose File → web services section → ports: Attribute Value ([http://localhost:8083](#)- If you haven't made any changes to the Docker Compose file)

How to use pgAdmin

- **Open docker-compose.yml**: Locate and open docker-compose.yml file in a text editor.

- **Find pgAdmin Service**: Look for the pgAdmin service section.

- **Identify Port Number**: Note the port number before the colon in the ports section (e.g., "8081:80" - here, 8081 is the port number).

- **Construct URL**: Replace <port number> with the identified port number in http://localhost:<port number>.
  Example: http://localhost:8081. If you haven't made any changes to the Docker Compose file, you can use this url directly.

- **Access pgAdmin**: Open the constructed URL in your web browser to access pgAdmin.

On the Login Page :

Username: In the Docker Compose File → pgAdmin services section → PGADMIN_DEFAULT_EMAIL Attribute Value (username@mail.com - Do not change this value)

Password: In the Docker Compose File → pgAdmin services section → PGADMIN_DEFAULT_PASSWORD Attribute Value (password - Do not change this value)

Once you log in successfully, on the **Home Page** on expanding **Server**, you will see the QueryCraftServer, which contains the schema for the Query Practice as well as a public schema.

In case the server asks for a password use the value in the Docker Compose File → db services section → POSTGRES_PASSWORD Attribute Value (password - Do not change this value)

Use pgAdmin (a management tool for PostgreSQL) from here.

File ∨   Object ∨

Object Explorer

- ∨ ⬛ Servers (1)
  - ∨ 🐘 QueryCraftServer
    - ∨ 🗄 Databases (1)
      - ∨ 🗄 postgres
        - > 🔲 Casts
        - > 🔷 Catalogs
        - > 🔷 Event Triggers
        - > 🔷 Extensions
        - > 🗄 Foreign Data Wrappers
        - > 🟡 Languages
        - > 🛰 Publications
        - ∨ 🔷 Schemas (6)
          - > 🔶 movie_review
          - > 🔶 organization
          - > 🔶 periodic_table
          - > 🔶 public
          - > 🔶 sales_management
          - > 🔶 security_contests
        - > 🌀 Subscriptions
      - > 👥 Login/Group Roles
      - > 📁 Tablespaces

Quick Trouble Shooting

Docker Permission Error

- Error


```
WARN[0000] /Users/                              /query-craft/docker-

[+] Running 32/2
   ✔ db Pulled                                  10.2s
   ✔ pgadmin Pulled                             12.4s
open /Users/          /.docker/buildx/current: permission denied
                  -Air query-craft %
```
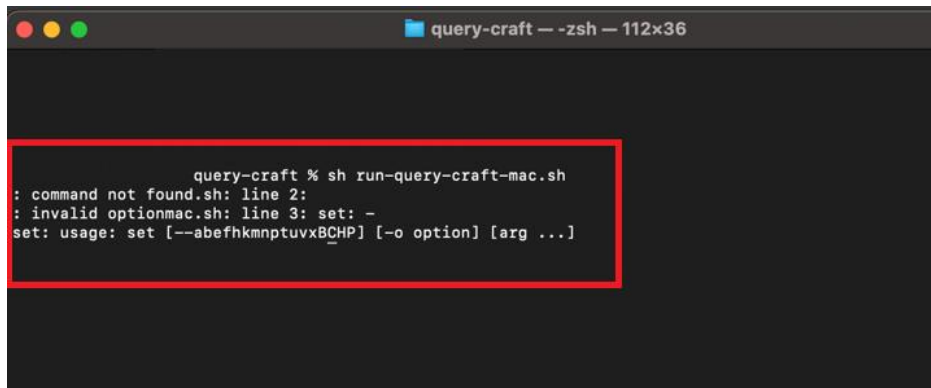
  - ERROR

- Permission issue when Docker tries to access a specific directory or file.
- Solution
  - Ensure that the current user has the necessary permissions to access the file or directory mentioned in the error.
  - Adjust the permissions of the directory to ensure your user can access it
    - sudo chmod -R 755 /Users/YourUserName/.docker/buildx

Command not found and invalid option Error

- Error


```
query-craft % sh run-query-craft-mac.sh
: command not found.sh: line 2:
: invalid optionmac.sh: line 3: set: -
set: usage: set [--abefhkmnptuvxBCHP] [-o option] [arg ...]
```

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- This error arises when a script file contains Windows-style line endings (CRLF) instead of Unix-style line endings (LF).
- Solution: Run the command in the Terminal
  - perl -i -pe 's/\015/\012/g' run-query-craft-mac.sh

Permission Error on QueryCraft Folders/Files

- Not enough Permissions for the query-craft directory and all its contents (including subdirectories and files) to read, write, and execute for all users.
- Solution
  - chmod -R 777 query-craft