

Docker Lab

Imágenes disponibles

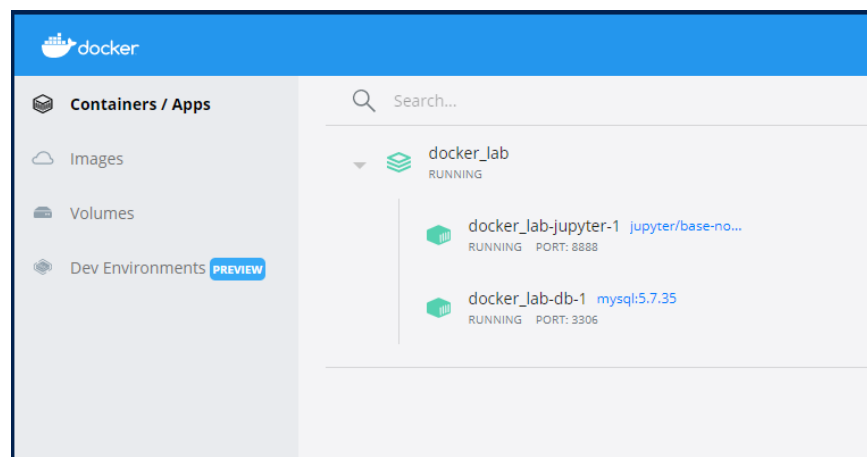
```
Windows PowerShell
PS D:\cgarcia\Galileo\4to_Trimestre\ProductDev\code_respository\docker_lab> docker ps -a
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS          NAMES
PS D:\cgarcia\Galileo\4to_Trimestre\ProductDev\code_respository\docker_lab> docker images
REPOSITORY    TAG        IMAGE ID       CREATED        SIZE
jupyter/base-notebook   latest    f14b646c836f   12 days ago   668MB
mysql          5.7.35     9f35042c6a98   3 weeks ago   448MB
hello-world      latest    feb5d9fea6a5   4 weeks ago   13.3kB
PS D:\cgarcia\Galileo\4to_Trimestre\ProductDev\code_respository\docker_lab>
```

Ejecutando Docker Compose

```
PS D:\cgarcia\Galileo\4to_Trimestre\ProductDev\code_respository\docker_lab> docker-compose up
[+] Running 4/4
 - Network docker_lab_default      Created
 - Volume "docker_lab_db_data"     Created
 - Container docker_lab-db-1       Created
 - Container docker_lab-jupyter-1  Created
Attaching to docker_lab-db-1, docker_lab-jupyter-1
docker_lab-db-1 | 2021-10-23 21:12:23+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.35-1debi
docker_lab-jupyter-1 | WARN: Jupyter Notebook deprecation notice https://github.com/jupyter/docker-stacks#jupyter-not
docker_lab-jupyter-1 | Executing the command: jupyter notebook
docker_lab-db-1 | 2021-10-23 21:12:23+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
docker_lab-db-1 | 2021-10-23 21:12:23+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.35-1debi
docker_lab-db-1 | 2021-10-23 21:12:23+00:00 [Note] [Entrypoint]: Initializing database files
docker_lab-db-1 | 2021-10-23T21:12:23.850864Z 0 [Warning] TIMESTAMP with implicit DEFAULT value is deprecated. P
```

Containers en Ejecución

```
Windows PowerShell
PS D:\cgarcia\Galileo\4to_Trimestre\ProductDev\code_respository\docker_lab> docker ps -a
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS          NAMES
8df77cf34cc1   mysql:5.7.35                       "docker-entrypoint.s..." About a minute ago   Up About a minute   0.0.0.0:3306->3306/tcp, 33060/tcp   docker_lab-db-1
24f5526e3476   jupyter/base-notebook              "jupyter-notebook"       About a minute ago   Up About a minute   0.0.0.0:8888->8888/tcp             docker_lab-jupyter-1
PS D:\cgarcia\Galileo\4to_Trimestre\ProductDev\code_respository\docker_lab>
```



Conexión a MySQL

DC Data Sources and Drivers

+ - [icon] [icon] [icon]

← →

Project Data Sources

mysqlDocker

Drivers

Amazon Aurora MySQL

Amazon Redshift

Apache Cassandra

Apache Derby (Embedded)

Apache Derby (Remote)

Apache Hive

Azure SQL Database

ClickHouse

Couchbase Query

Exasol

Greenplum

H2

HSQldb (Local)

HSQldb (Remote)

IBM Db2

IBM Db2 (JOpen)

IBM Db2 for 9.X, 10.X

MariaDB

Microsoft SQL Server

Name: mysqlDocker Reset

Comment: [text area]

General Options SSH/SSL Schemas Advanced

Connection type: default Driver: MySQL

Host: localhost Port: 3306

User: test

Password: <hidden> Save: Forever

Database: test

URL: jdbc:mysql://localhost:3306/test

Overrides settings above

Test Connection


✓

DBMS: MySQL (ver. 5.7.35)
Case sensitivity: plain=exact, delimited=exact
Driver: MySQL Connector/J (ver. mysql-connector-java-8.0.21 (Revision: 33f65445a1bcc544ebf
Ping: 37 ms
SSL: yes


Update to driver ver. 8.0.25

OK Cancel Apply

Jupyter Notebook

 jupyter DockerLab Last Checkpoint: a few seconds ago (autosaved) Logout

File Edit View Insert Cell Kernel Help Trusted Python 3 (ipykernel)



```
In [1]: !pip install pandas

Collecting pandas
  Downloading pandas-1.3.4-cp39-cp39-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (11.5 MB)
    |████████████████████| 11.5 MB 2.6 MB/s eta 0:00:01
Requirement already satisfied: python-dateutil>=2.7.3 in /opt/conda/lib/python3.9/site-packages (from pandas) (2.8.2)
Requirement already satisfied: pytz>=2017.3 in /opt/conda/lib/python3.9/site-packages (from pandas) (2021.3)
Collecting numpy>=1.17.3
  Downloading numpy-1.21.3-cp39-cp39-manylinux_2_12_x86_64.manylinux2010_x86_64.whl (15.7 MB)
    |████████████████████| 15.7 MB 2.2 MB/s eta 0:00:01
Requirement already satisfied: six>=1.5 in /opt/conda/lib/python3.9/site-packages (from python-dateutil>=2.7.3->pandas) (1.16.0)
Installing collected packages: numpy, pandas
Successfully installed numpy-1.21.3 pandas-1.3.4

In [2]: !pip install mysql-connector-python

Collecting mysql-connector-python
  Downloading mysql_connector_python-8.0.27-1commercial-cp39-cp39-manylinux1_x86_64.whl (37.5 MB)
    |████████████████████| 37.5 MB 2.3 MB/s eta 0:00:01
Collecting protobuf>=3.0.0
  Downloading protobuf-3.19.0-cp39-cp39-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (1.1 MB)
    |████████████████████| 1.1 MB 2.8 MB/s eta 0:00:01
Installing collected packages: protobuf, mysql-connector-python
Successfully installed mysql-connector-python-8.0.27 protobuf-3.19.0

In [3]: import pandas as pd
        from sqlalchemy import create_engine

In [4]: source = create_engine('mysql+mysqlconnector://test:test123@db/test')

In [5]: pd.read_sql('select now()', con = source)

Out[5]:
```

	now()
0	2021-10-23 21:23:30