Universidad Galileo

Maestría en Data Science (PAPD)

Product Development

Sección U

Tarea 1

Docker

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Docker

INSTALACIÓN DE DOCKER

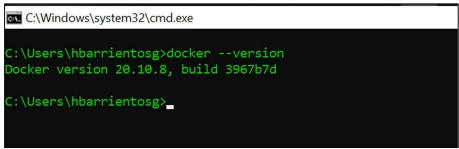


Imagen 1 – Versión de Docker instalada

EJECUCIÓN DE JUPYTER NOTEBOOK

```
C:\Windows\system32\cmd.exe - docker run -p 8888:8888 jupyter/base-notebook
 :\Users\hbarrientosg>docker run -p 8888:8888 jupyter/base-notebook
 IARN: Jupyter Notebook deprecation notice https://github.com/jupyter/docker-stacks#jupyter-notebook-deprecation-notice
Executing the command: jupyter notebook
[I 05:03:28.027 NotebookApp] Writing notebook server cookie secret to /home/jovyan/.local/share/jupyter/runtime/noteboo
[W 2021-10-29 05:03:30.253 LabApp] 'ip' has moved from NotebookApp to ServerApp. This config will be passed to ServerAp
[W 2021-10-29 05:03:30.254 LabApp] 'port' has moved from NotebookApp to ServerApp. This config will be passed to ServerA
[W 2021-10-29 05:03:30.255 LabApp] 'port' has moved from NotebookApp to ServerApp. This config will be passed to Server
W 2021-10-29 05:03:30.255 LabApp] 'port' has moved from NotebookApp to ServerApp. This config will be passed to Server
Lease.
I 2021-10-29 05:03:30.307 LabApp] JupyterLab extension loaded from /opt/conda/lib/python3.9/site-packages/jupyterlab
I 2021-10-29 05:03:30.308 LabApp] JupyterLab application directory is /opt/conda/share/jupyter/lab
I 05:03:30.328 NotebookApp] Serving notebooks from local directory: /home/jovyan
I 05:03:30.329 NotebookApp] Jupyter Notebook 6.4.5 is running at:
I 05:03:30.329 NotebookApp] http://f23447fda39d:8888/?token=34c1c6fe47074c50165d504b52d7f8a509b93f16e8ea2dc6
 I 05:03:30.329 NotebookApp] or http://127.0.0.1:8888/?token=34c1c6fe47074c50165d504b52d7f8a509b93f16e8ea2dc6
 I 05:03:30.329 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
C 05:03:30.356 NotebookApp]
    To access the notebook, open this file in a browser:
        file:///home/jovyan/.local/share/jupyter/runtime/nbserver-8-open.html
    Or copy and paste one of these URLs:
        http://f23447fda39d:8888/?token=34c1c6fe47074c50165d504b52d7f8a509b93f16e8ea2dc6
     or http://127.0.0.1:8888/?token=34c1c6fe47074c50165d504b52d7f8a509b93f16e8ea2dc6
 I 05:05:21.155 NotebookApp] 302 GET /?token=34c1c6fe47074c50165d504b52d7f8a509b93f16e8ea2dc6 (172.17.0.1) 1.890000ms
```

Imagen 2 – Ejecución de contendor de jupyter notebook

CREACIÓN Y EJECUCIÓN DE NOTEBOOK

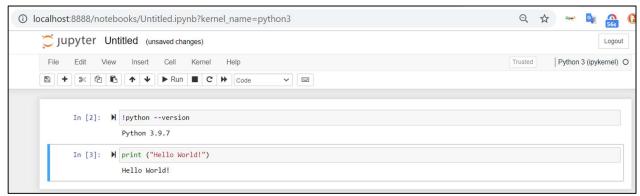


Imagen 3 – Jupyter notebook en explorador web

CONEXIÓN A BASE DE DATOS

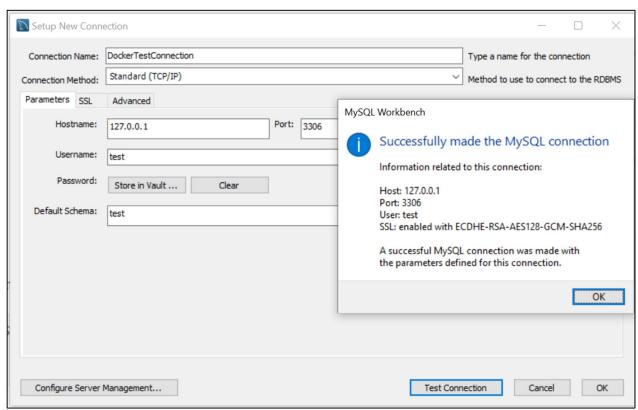


Imagen 4 – Prueba de conexión a base de datos MySQL en contenedor

DETALLE DE RED Y CONTENEDORES EN EJECUCIÓN

Imagen 5 – Detalle de red e imágenes en ejecución.

CONEXIÓN A BASE DE DATOS DESDE JUPYTER

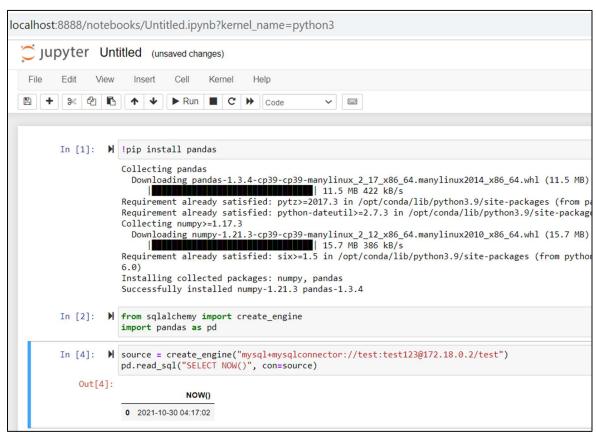


Imagen 6 – Conexión a base de datos desde Jupyter en la misma red.