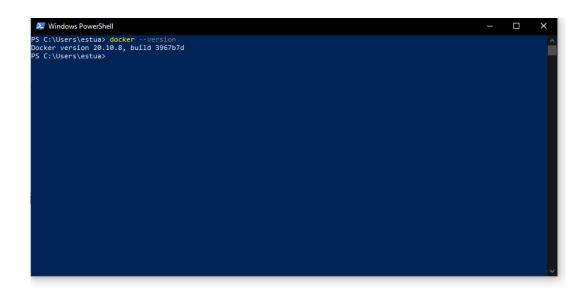
### Clase de Docker

#### Instalación de Docker



## Corriendo hola mundo

```
Windows PowerShell

PS C:\Users\estua> docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2d039710123e: Pull complete
Digest: sha256:37a6092088d9393615c3ee023f7ddb068d12b337475d64c622ac30f45c29c51
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker deamon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
(amad64)
3. The Docker daemon created a new container from that image which runs the
executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
to your terminal.

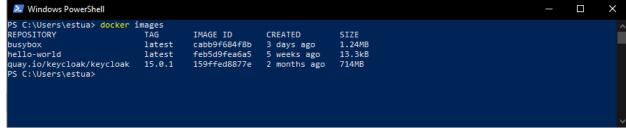
To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
PS C:\Users\estua>
```

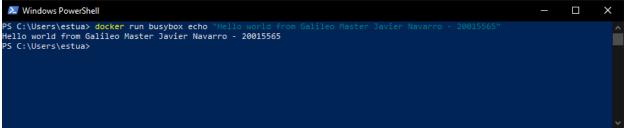
## Pull busybox



### Ver imágenes



## Enviando parámetros al correr un container



#### Listando contenedores

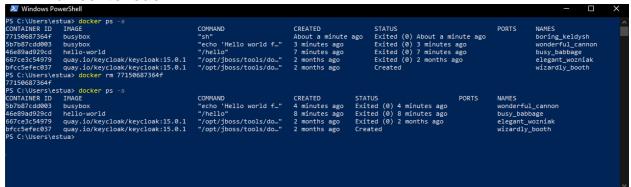


#### Ejecutar de forma interactiva un contenedor



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#### Eliminar contenedor



Instalando Jupyter

```
Windows PowerShell

77156687364F

PS C:\Users\estua> docker ps -a

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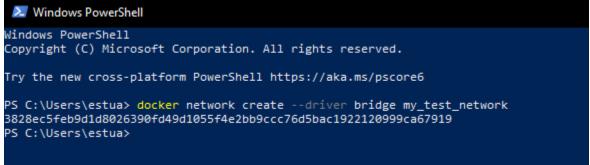
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```

Mapeo de puertos y despliegue v 2021-10-30 21:58:33.287 LabApp] 'ip' has moved from NotebookApp to ServerApp. This config will be passed to ServerApp. Be sure to update your config befor | 2021-10-30 21:58:33:267 LabApp] | p has moved from NotebookApp to ServerApp. This config will be passed to ServerApp. Be sure to appare your config before our next release. | 2021-10-30 21:58:33.287 LabApp] 'port' has moved from NotebookApp to ServerApp. This config will be passed to ServerApp. Be sure to update your config before our next release. | 2021-10-30 21:58:33.287 LabApp] 'port' has moved from NotebookApp to ServerApp. This config will be passed to ServerApp. Be sure to update your config before our next release. | 2021-10-30 21:58:33.287 LabApp] 'port' has moved from NotebookApp to ServerApp. This config will be passed to ServerApp. Be sure to update your config before the passed to ServerApp. Be sure to update your config before the passed to ServerApp. Be sure to update your configuration of the passed to ServerApp. Be sure to update your configuration of the passed to ServerApp. Be sure to update your configuration of the passed to ServerApp. Be sure to update your configuration of the passed to ServerApp. Be sure to update your configuration of the passed to ServerApp. Be sure to update your configuration of the passed to ServerApp. Be sure to update your configuration of the passed to ServerApp. Be sure to update your configuration of the passed to ServerApp. Be sure to update your configuration of the passed to ServerApp. 2021-10-30 21:58:33.287 LabApp] 'port' has moved from NotebookApp to ServerApp. This config will be passed to Server
our next release.
2021-10-30 21:58:33.303 LabApp] JupyterLab extension loaded from /opt/conda/lib/python3.9/site-packages/jupyterlab
2021-10-30 21:58:33.303 LabApp] JupyterLab application directory is /opt/conda/share/jupyter/lab
21:58:33.312 NotebookApp] Serving notebooks from local directory: /home/jovyan
21:58:33.313 NotebookApp] Jupyter Notebook 6.4.5 is running at:
21:58:33.313 NotebookApp] They'/9c89658be03:8888/?token=8f57a52ff797b0d11976d8f7f9e176ecfdc820fb09ec087e
21:58:33.313 NotebookApp] or http://127.0.0.1:8888/?token=8f57a52ff797b0d11976d8f7f9e176ecfdc820fb09ec087e
21:58:33.313 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
21:58:33.320 NotebookApp] To access the notebook, open this file in a browser:
 file:///home/jovyan/.local/share/jupyter/runtime/nbserver-7-open.html
Or copy and paste one of these URLs:
 http://9c89658ebc03:8888/token=8f57a52ff797b0d11976d8f7f9e176ecfdc820fb09ec087e
 or http://127.0.0.1:8888/token=8f57a52ff797b0d11976d8f7f9e176ecfdc820fb09ec087e
21:58:49.237 NotebookApp] 302 GET / (172.17.0.1) 1.350000ms
21:59:28.418 NotebookApp] 302 GET / (172.17.0.1) 0.350000ms
21:59:28.427 NotebookApp] 302 GET / (172.17.0.1) 1.190000ms
21:59:28.428 NotebookApp] 302 GET / tree? (172.17.0.1) 1.190000ms
21:59:28.428 NotebookApp] 302 GET / tree? (172.17.0.1) 1.190000ms 0 ← → C ① 127.0.0.1:8888/tree **★** ≡ (a) : 👺 ECFM Dashboard 🙉 GES 附 Gmail Personal 🗧 Google Calendario... 📙 Bancos 📙 CHN 📕 Interesantes 📙 Data Science » | 🛅 Reading list 🗂 jupyter Quit Logout Files Running Clusters Select items to perform actions on them. Upload New → 2 □ 0 → • / Last Modified File size Crear una red Windows PowerShell

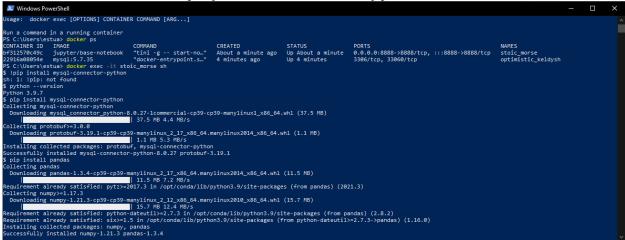


## Correr jupyter en la red

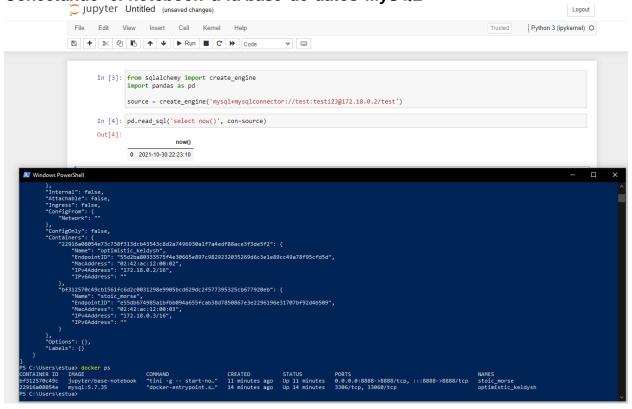
```
Windows PowerShell
                                                                                                                                                 PS C:\Users\estua> docker run -p 8888:8888 --network my_test_network jupyter/pase-notebook
WARN: Jupyter Notebook deprecation notice https://github.com/jupyter/docker-stacks#jupyter-notebook-deprecation-notice.
 PS C:\Users\estua> <mark>docker</mark> run -p 8888:8888 --network my_test_network jupyter/base-notebook
Executing the command: jupyter notebook
[I 22:05:51.213 NotebookApp] Writing notebook server cookie secret to /home/jovyan/.local/share/jupyter/runtime/notebook
_cookie_secret
[W 2021-10-30 22:05:52.128 LabApp] 'ip' has moved from NotebookApp to ServerApp. This config will be passed to ServerApp
[W 2021-10-30 22:05:52.128 LabApp] 'port' has moved from NotebookApp to ServerApp. This config will be passed to ServerA
pp. Be sure to update your config before our next release.
[W 2021-10-30 22:05:52.128 LabApp] 'port' has moved from NotebookApp to ServerApp. This config will be passed to ServerA
pp. Be sure to update your config before our next release.
[W 2021-10-30 22:05:52.128 LabApp] 'port' has moved from NotebookApp to ServerApp. This config will be passed to ServerA
pp. Be sure to update your config before our next release.
[I 2021-10-30 22:05:52.144 LabApp] JupyterLab extension loaded from /opt/conda/lib/python3.9/site-packages/jupyterlab
[I 2021-10-30 22:05:52.144 LabApp] JupyterLab application directory is /opt/conda/share/jupyter/lab
[I 22:05:52.153 NotebookApp] Serving notebooks from local directory: /home/jovyan
[I 22:05:52.153 NotebookApp] Jupyter Notebook 6.4.5 is running at:
[I 22:05:52.153 NotebookApp] http://b18d0a14196a:8888/?token=eb6ade2605beb8d3b6ef25b0a2f7a6ba746bb0c97296a75e
 I 22:05:52.153 NotebookApp] or http://127.0.0.1:8888/?token=eb6ade2605beb8d3b6ef25b0a2f7a6ba746bb0c97296a75e
 I 22:05:52.153 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 22:05:52.166 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://b18d0a14196a:8888/?token=eb6ade2605beb8d3b6ef25b0a2f7a6ba746bb0c97296a75e
      or http://127.0.0.1:8888/?token=eb6ade2605beb8d3b6ef25b0a2f7a6ba746bb0c97296a75e
```

## Correr Mysql en la red creada

Instalando driver de mysql en contenedor Jupyter



Conectando el notebook a la base de datos MySQL



Universidad Galileo Posgrado en Análisis y Predicción de Datos Product Development Catedrático: Ing. Carlos Zelada Auxiliar: Ing. Obed Espinoza Autor: Javier Navarro - 20015565

# **Usando Docker compose**