Universidad Galileo

Maestría en Data Science

Product Development

Ing. Obed Espinoza

Comandos Semana No.2

Rafael Augusto Cantoral Segura

Carne 21006405

Guatemala, 30 de octubre de 2021

A continuación, se presentan los comandos ejecutados en consola para Docker.

Docker --version

```
PS C:\Users\Rafael Cantoral> docker --version
Docker version 20.10.8, build 3967b7d
PS C:\Users\Rafael Cantoral>
```

Docker run hello-world

```
PS C:\Users\Rafael Cantoral> docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:37a0b92b08d4919615c3ee023f7ddb068d12b8387475d64c622ac30f45c29c51
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 daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 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\Rafael Cantoral>
```

Docker pull busybox

```
PS C:\Users\Rafael Cantoral> docker pull busybox
Using default tag: latest
latest: Pulling from library/busybox
01c2cdc13739: Pull complete
Digest: sha256:15e927f78df2cc772b70713543d6b651e3cd8370abf86b2ea4644a9fba21107f
Status: Downloaded newer image for busybox:latest
docker.io/library/busybox:latest
PS C:\Users\Rafael Cantoral>
```

Docker images

```
PS C:\Users\Rafael Cantoral> docker images
REPOSITORY              TAG      IMAGE ID       CREATED        SIZE
jupyter/base-notebook   latest   8a28b7cb4a05   36 hours ago   675MB
busybox                 latest   cabb9f684f8b   2 days ago     1.24MB
mysql                   5.7.35   8a8a506ccfdc   2 weeks ago    448MB
hello-world             latest   feb5d9fea6a5   5 weeks ago    13.3kB
PS C:\Users\Rafael Cantoral>
```

Docker run busybox echo "Hello World"

```
PS C:\Users\Rafael Cantoral> docker run busybox echo "Hello World"
Hello World
PS C:\Users\Rafael Cantoral>
```

Docker ps

```
PS C:\Users\Rafael Cantoral> docker ps
CONTAINER ID   IMAGE                   COMMAND                 CREATED       STATUS       PORTS                                              NAMES
7bb56525c275   mysql:5.7.35            "docker-entrypoint.s…"  8 hours ago   Up 8 hours   0.0.0.0:3306->3306/tcp, 33060/tcp                  product-mydb-1
c9a494e97e86   jupyter/base-notebook   "tini -g -- start-no…"  8 hours ago   Up 8 hours   0.0.0.0:8888->8888/tcp                             product-jupyter-1
PS C:\Users\Rafael Cantoral>
```

Docker ps -a

```
PS C:\Users\Rafael Cantoral> docker ps -a
CONTAINER ID   IMAGE                   COMMAND                 CREATED          STATUS                     PORTS                               NAMES
9eabdb0f046d   busybox                 "echo 'Hello World'"    3 minutes ago    Exited (0) 3 minutes ago                                       reverent_varahamihira
f239ba15186c   hello-world             "/hello"                48 minutes ago   Exited (0) 48 minutes ago                                      silly_leavitt
7bb56525c275   mysql:5.7.35            "docker-entrypoint.s…"  8 hours ago      Up 8 hours                 0.0.0.0:3306->3306/tcp, 33060/tcp   product-mydb-1
c9a494e97e86   jupyter/base-notebook   "tini -g -- start-no…"  8 hours ago      Up 8 hours                 0.0.0.0:8888->8888/tcp              product-jupyter-1
6d0457894a07   mysql:5.7.35            "docker-entrypoint.s…"  9 hours ago      Exited (0) 8 hours ago                                         cranky_ishizaka
ae97fd0a88cb   jupyter/base-notebook   "tini -g -- start-no…"  9 hours ago      Exited (0) 8 hours ago                                         confident_chaum
0bbeb0046451   jupyter/base-notebook   "tini -g -- start-no…"  9 hours ago      Created                                                        elated_moser
cc30be36ca8d   mysql:5.7.35            "docker-entrypoint.s…"  9 hours ago      Exited (0) 9 hours ago                                         strange_dhawan
641af263ff41   jupyter/base-notebook   "tini -g -- start-no…"  9 hours ago      Exited (0) 9 hours ago                                         upbeat_kare
PS C:\Users\Rafael Cantoral>
```

```
PS C:\Users\Rafael Cantoral> docker run -it busybox sh
/ # ls
bin   dev   etc   home   proc   root   sys   tmp   usr   var
/ # uptime
 04:31:22 up  7:05,  0 users,  load average: 0.00, 0.00, 0.00
/ #
```

Docker run -p 8889:8889 jupyter/base-notebook

```
PS C:\Users\Rafael Cantoral> docker run -p 8889:8889 jupyter/base-notebook
WARN: Jupyter Notebook deprecation notice https://github.com/jupyter/docker-stacks#jupyter-notebook-deprecation-notice.
Executing the command: jupyter notebook
[I 04:47:33.720 NotebookApp] Writing notebook server cookie secret to /home/jovyan/.local/share/jupyter/runtime/notebook_cookie_secret
[W 2021-10-30 04:47:36.313 LabApp] 'ip' has moved from NotebookApp to ServerApp. This config will be passed to ServerApp. Be sure to update your config before our next release.
[W 2021-10-30 04:47:36.313 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.
[W 2021-10-30 04:47:36.314 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.
[W 2021-10-30 04:47:36.314 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.
[I 2021-10-30 04:47:36.335 LabApp] JupyterLab extension loaded from /opt/conda/lib/python3.9/site-packages/jupyterlab
[I 2021-10-30 04:47:36.335 LabApp] JupyterLab application directory is /opt/conda/share/jupyter/lab
[I 04:47:36.354 NotebookApp] Serving notebooks from local directory: /home/jovyan
[I 04:47:36.354 NotebookApp] Jupyter Notebook 6.4.5 is running at:
[I 04:47:36.354 NotebookApp] http://b9a3a00d5ce9:8888/?token=eed8e9e79e9cccea76b4e8b3f1ff1d07af48e39ad09b3c38
[I 04:47:36.354 NotebookApp]  or http://127.0.0.1:8888/?token=eed8e9e79e9cccea76b4e8b3f1ff1d07af48e39ad09b3c38
[I 04:47:36.354 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 04:47:38.367 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://b9a3a00d5ce9:8888/?token=eed8e9e79e9cccea76b4e8b3f1ff1d07af48e39ad09b3c38
     or http://127.0.0.1:8888/?token=eed8e9e79e9cccea76b4e8b3f1ff1d07af48e39ad09b3c38
```

Docker network create --driver bridge my_test

```
PS C:\Users\Rafael Cantoral> docker network create --driver bridge my_test
Error response from daemon: network with name my_test already exists
PS C:\Users\Rafael Cantoral>
```
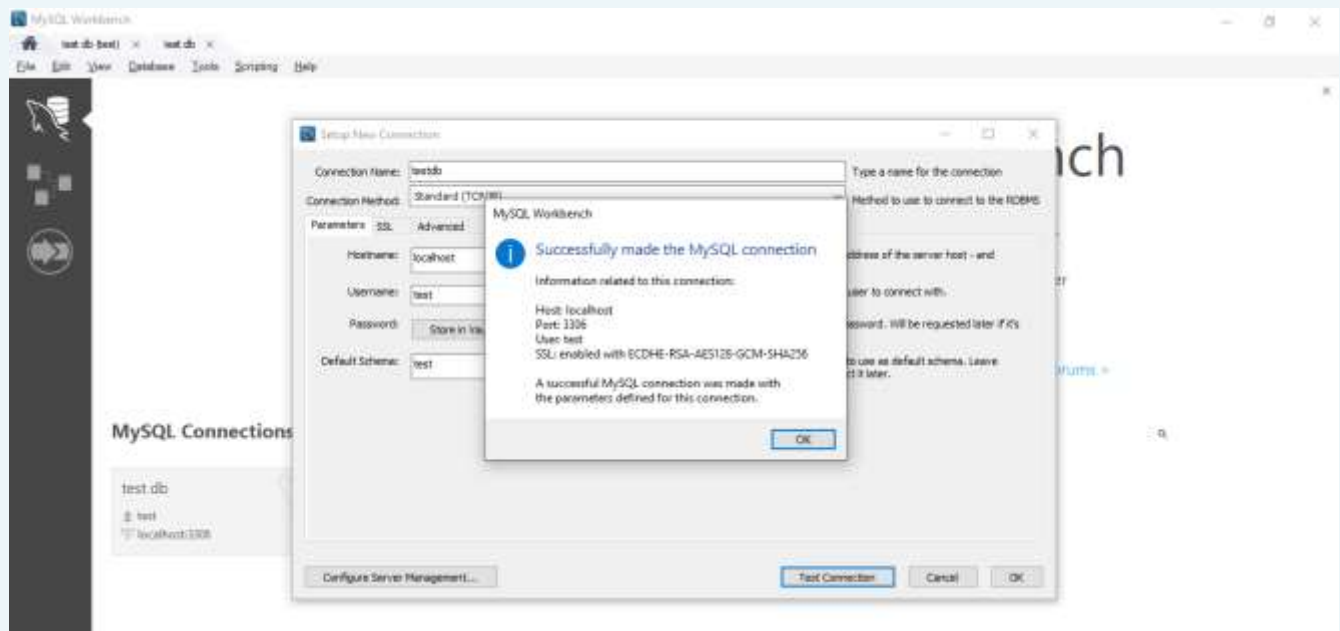
Docker stop name

```
PS C:\Users\Rafael Cantoral> docker stop xenodochial_matsumoto
xenodochial_matsumoto
PS C:\Users\Rafael Cantoral>
```

Run Mysql Container

MYSQL Workbench Connection

Docker Compose Connection