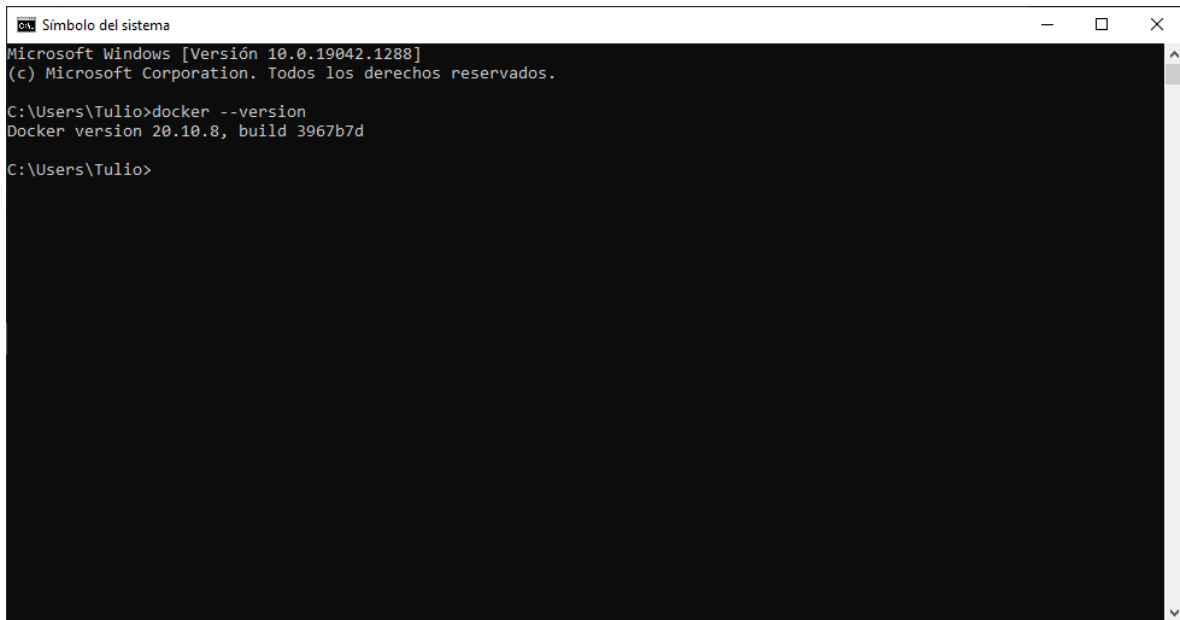


Tarea No. 1

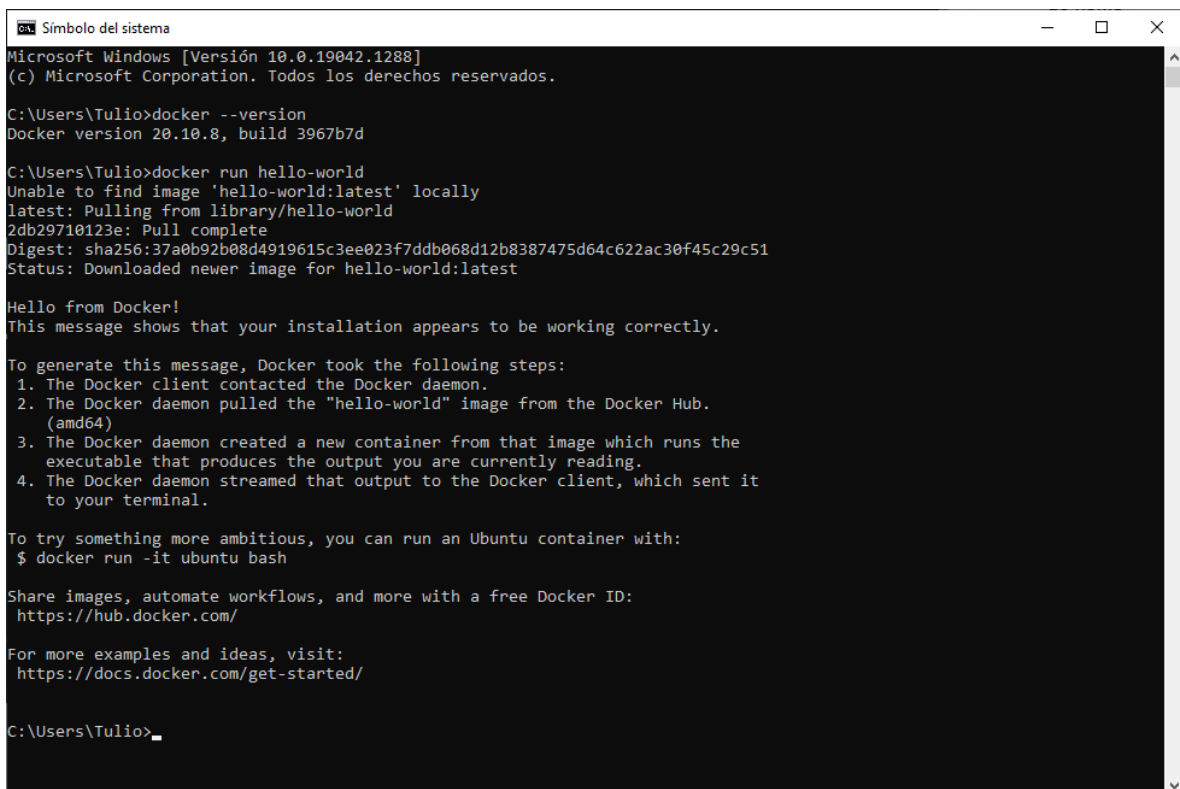
Capturas de Docker: Comandos básicos



```
Símbolo del sistema
Microsoft Windows [Versión 10.0.19042.1288]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\Tulio>docker --version
Docker version 20.10.8, build 3967b7d

C:\Users\Tulio>
```



```
Símbolo del sistema
Microsoft Windows [Versión 10.0.19042.1288]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\Tulio>docker --version
Docker version 20.10.8, build 3967b7d

C:\Users\Tulio>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/

C:\Users\Tulio>
```

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```
Símbolo del sistema
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
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C:\Users\Tulio>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

C:\Users\Tulio>
```

```
Símbolo del sistema
to your terminal.

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Status: Downloaded newer image for busybox:latest
docker.io/library/busybox:latest

C:\Users\Tulio>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
busybox        latest    cabb9f684f8b   3 days ago    1.24MB
hello-world    latest    feb5d9fea6a5   5 weeks ago    13.3kB

C:\Users\Tulio>
```

```
Símbolo del sistema
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C:\Users\Tulio>docker run busybox

C:\Users\Tulio>
```

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```
Símbolo del sistema
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hello-world    latest    feb5d9fea6a5   5 weeks ago    13.3kB

C:\Users\Tulio>docker run busybox

C:\Users\Tulio>docker run busybox echo "Hello From Galileo Master!"
Hello From Galileo Master!

C:\Users\Tulio>
```

```
Símbolo del sistema

For more examples and ideas, visit:
https://docs.docker.com/get-started/

C:\Users\Tulio>docker pull busybox
Using default tag: latest
latest: Pulling from library/busybox
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Hello From Galileo Master!

C:\Users\Tulio>docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS   NAMES
C:\Users\Tulio>
```

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```
Símbolo del sistema
docker.io/library/busybox:latest

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REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
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C:\Users\Tulio>docker run busybox echo "Hello From Galileo Master!"
Hello From Galileo Master!

C:\Users\Tulio>docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
C:\Users\Tulio>docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
0a30da116879   busybox   "echo 'Hello From Ga..." About a minute ago   Exited (0) About a minute ago   optimistic_ritchie
1a5149f8fcc4   busybox   "sh"      2 minutes ago       Exited (0) 2 minutes ago       intelligent_kare
38f127456175   hello-world "/hello"   19 minutes ago       Exited (0) 19 minutes ago       gracious_jemison

C:\Users\Tulio>
```

```
Símbolo del sistema - docker run -it busybox sh

C:\Users\Tulio>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
busybox        latest    cabb9f684f8b   3 days ago     1.24MB
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Hello From Galileo Master!

C:\Users\Tulio>docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
C:\Users\Tulio>docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
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38f127456175   hello-world "/hello"   19 minutes ago       Exited (0) 19 minutes ago       gracious_jemison

C:\Users\Tulio>docker run -it busybox sh
/ # ls
bin  dev  etc  home  proc  root  sys  tmp  usr  var
/ # uptime
03:15:17 up 1:45, 0 users, load average: 0.00, 0.00, 0.00
/ #
```

```
Símbolo del sistema

CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
C:\Users\Tulio>docker ps -a
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/ # ls
bin  dev  etc  home  proc  root  sys  tmp  usr  var
/ # uptime
03:15:17 up 1:45, 0 users, load average: 0.00, 0.00, 0.00
/ # cd home..
sh: cd: can't cd to home.: No such file or directory
/ # cd home
/home # exit

C:\Users\Tulio>docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
33b35bc35a89   busybox   "sh"      About a minute ago   Exited (0) 6 seconds ago       distracted_shannon
0a30da116879   busybox   "echo 'Hello From Ga..." 5 minutes ago       Exited (0) 5 minutes ago       optimistic_ritchie
1a5149f8fcc4   busybox   "sh"      6 minutes ago       Exited (0) 6 minutes ago       intelligent_kare
38f127456175   hello-world "/hello"   22 minutes ago       Exited (0) 22 minutes ago       gracious_jemison

C:\Users\Tulio>
```

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```
Símbolo del sistema
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
0a30da116879   busybox        "echo 'Hello From Ga..." About a minute ago   Exited (0)    About a minute ago   optimistic_ritchie
1a5149f8fcc4   busybox        "sh"                    2 minutes ago     Exited (0)    2 minutes ago     intelligent_kare
38f127456175   hello-world    "/hello"                19 minutes ago    Exited (0)    19 minutes ago    gracious_jemison

C:\Users\Tulio>docker run -it busybox sh
/# ls
bin dev etc home proc root sys tmp usr var
/# uptime
03:15:17 up 1:45, 0 users, load average: 0.00, 0.00, 0.00
/# cd home..
sh: cd: can't cd to home..: No such file or directory
/# cd home
/home # exit

C:\Users\Tulio>docker ps -a
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1a5149f8fcc4   busybox        "sh"                    6 minutes ago     Exited (0)    6 minutes ago    intelligent_kare
38f127456175   hello-world    "/hello"                22 minutes ago    Exited (0)    22 minutes ago    gracious_jemison

C:\Users\Tulio>docker rm 33b35bc35a89
33b35bc35a89

C:\Users\Tulio>
```

Instalación de Jupyter

```
Símbolo del sistema
0a30da116879   busybox        "echo 'Hello From Ga..." 5 minutes ago     Exited (0)    5 minutes ago    optimistic_ritchie
1a5149f8fcc4   busybox        "sh"                    6 minutes ago     Exited (0)    6 minutes ago    intelligent_kare
38f127456175   hello-world    "/hello"                22 minutes ago    Exited (0)    22 minutes ago    gracious_jemison

C:\Users\Tulio>docker rm 33b35bc35a89
33b35bc35a89

C:\Users\Tulio>docker pull jupyter/base-notebook
Using default tag: latest
latest: Pulling from jupyter/base-notebook
7b1a6ab2e44d: Pull complete
aae7ac7ba423: Pull complete
ac5e015e0bca: Pull complete
d7ee77f7580c: Pull complete
a5db759ff9c8: Pull complete
c464ee64836c: Pull complete
ae5313d07705: Pull complete
0c52b58dd46b: Pull complete
6030cc7cf343: Pull complete
25203b1e1be1: Pull complete
464a3cf035e8: Pull complete
Digest: sha256:5876e42c22c5df950880518f13f9c8e08b2c8fd50d1072519887735c14ee63f7
Status: Downloaded newer image for jupyter/base-notebook:latest
docker.io/jupyter/base-notebook:latest

C:\Users\Tulio>
```

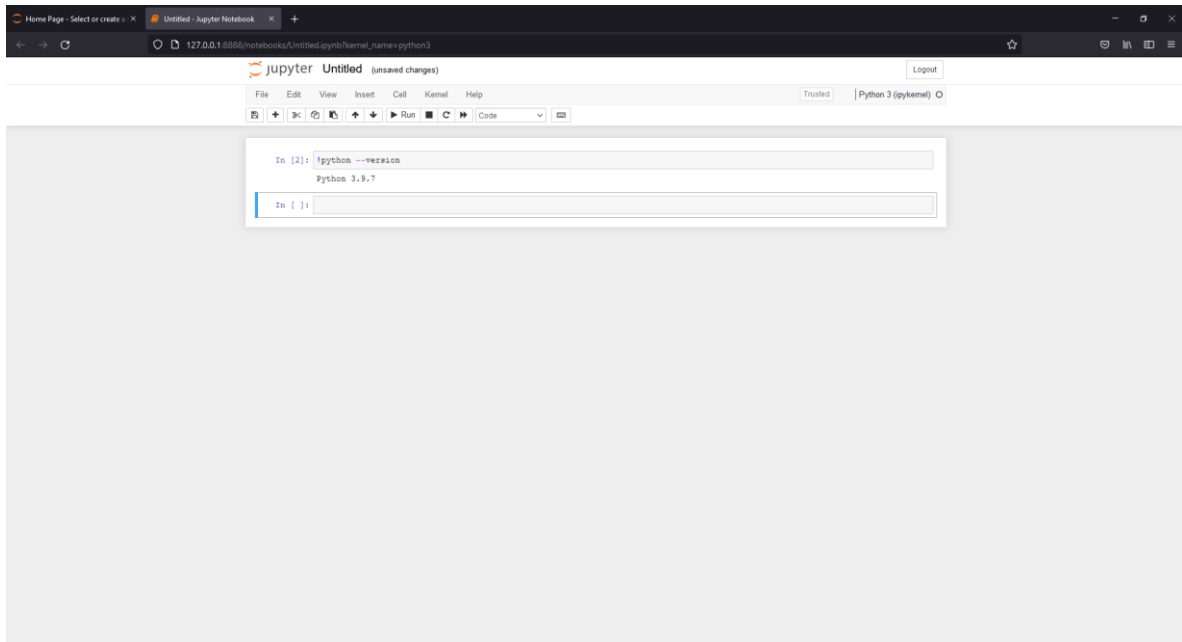
```
Símbolo del sistema - docker run -p 8888:8888 jupyter/base-notebook

C:\Users\Tulio>docker run -p 8888:8888 jupyter/base-notebook
WARN: Jupyter Notebook deprecation notice https://github.com/jupyter/docker-stacks#jupyter-notebook-deprecation-notice.
Executing the command: jupyter notebook
[I 03:36:07.064 NotebookApp] Writing notebook server cookie secret to /home/jovyan/.local/share/jupyter/runtime/notebook_cookie_secret
[W 2021-10-31 03:36:07.761 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 2021-10-31 03:36:07.761 LabApp] 'port' has moved from NotebookApp to ServerApp. This config will be passed to ServerApp. Be sure to update yo
ur config before our next release.
[W 2021-10-31 03:36:07.761 LabApp] 'port' has moved from NotebookApp to ServerApp. This config will be passed to ServerApp. Be sure to update yo
ur config before our next release.
[W 2021-10-31 03:36:07.761 LabApp] 'port' has moved from NotebookApp to ServerApp. This config will be passed to ServerApp. Be sure to update yo
ur config before our next release.
[I 2021-10-31 03:36:07.771 LabApp] JupyterLab extension loaded from /opt/conda/lib/python3.9/site-packages/jupyterlab
[I 2021-10-31 03:36:07.771 LabApp] JupyterLab application directory is /opt/conda/share/jupyter/lab
[I 03:36:07.777 NotebookApp] Serving notebooks from local directory: /home/jovyan
[I 03:36:07.777 NotebookApp] Jupyter Notebook 6.4.5 is running at:
[I 03:36:07.777 NotebookApp] http://8b8e88f9d917:8888/?token=b8c46c38e4b527614c8f386d7ccaf5397839a266b5ddf98b
[I 03:36:07.777 NotebookApp] or http://127.0.0.1:8888/?token=b8c46c38e4b527614c8f386d7ccaf5397839a266b5ddf98b
[I 03:36:07.777 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).

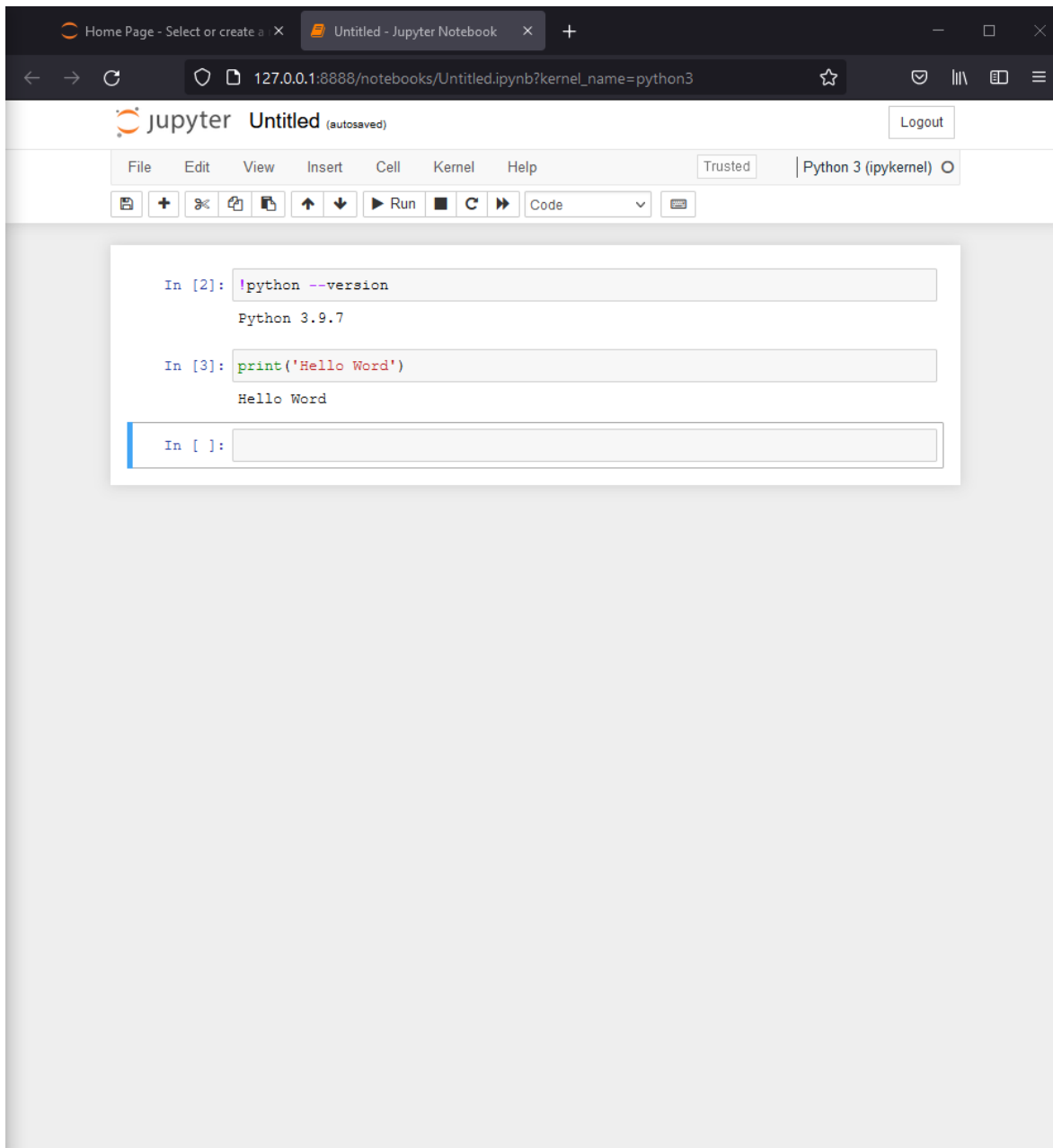
To access the notebook, open this file in a browser:
file:///home/jovyan/.local/share/jupyter/runtime/nbserver-8-open.html
Or copy and paste one of these URLs:
http://8b8e88f9d917:8888/?token=b8c46c38e4b527614c8f386d7ccaf5397839a266b5ddf98b
or http://127.0.0.1:8888/?token=b8c46c38e4b527614c8f386d7ccaf5397839a266b5ddf98b
```

Product Development

Marco Escobar



Product Development
Marco Escobar



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```
Símbolo del sistema
Microsoft Windows [Versión 10.0.19042.1288]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\Tulio>docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                    NAMES
8b8e88f9d917   jupyter/base-notebook  "tini -g -- start-no..."  6 minutes ago  Up 6 minutes  0.0.0.0:8888->8888/tcp    xenodochial_gates

C:\Users\Tulio>
```

Creando la red

```
Símbolo del sistema
Microsoft Windows [Versión 10.0.19042.1288]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\Tulio>docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                    NAMES
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C:\Users\Tulio>docker create --driver bridge my_test_network
unknown flag: --driver
See 'docker create --help'.

C:\Users\Tulio>docker network create --driver bridge my_test_network
b4c5a02ba690081d310133be851b189ad61637319aa6b06dbefb2121f2510f73

C:\Users\Tulio>
```

MySQL Container

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```
Simbolo del sistema - docker run -it --network my_test_network -e "MYSQL_ROOT_PASSWORD=root123" -e "MYSQL_DATABASE=test" -e "MYSQL_USER=test" -e "MYSQL_PASSWORD=test123" ...  
C:\Users\Tulio>docker run -it --network my_test_network -e "MYSQL_ROOT_PASSWORD=root123" -e "MYSQL_DATABASE=test" -e "MYSQL_USER=test" -e "MYSQL_PASSWORD=test123" mysql:5.7.35  
Unable to find image 'mysql:5.7.35' locally  
5.7.35: Pulling from library/mysql  
b380bbd43752: Pull complete  
f23cbf2acc5d: Pull complete  
30cf6c29c0a: Pull complete  
b38609286cbe: Pull complete  
8211d9e66cd6: Pull complete  
2313f9eeca4a: Pull complete  
7eb487d00da0: Pull complete  
bb9cc5c700e7: Pull complete  
88676eb32344: Pull complete  
8fea0b38a348: Pull complete  
3dc585bfc693: Pull complete  
Digest: sha256:b8814059bbd9c80b78fe4b2b0b70cd70fe3772b3c5d8ee1edfa46791db3224f9  
Status: Downloaded newer image for mysql:5.7.35  
2021-10-31 04:09:42+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.35-1debian10 started.  
2021-10-31 04:09:42+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'  
2021-10-31 04:09:42+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.35-1debian10 started.  
2021-10-31 04:09:42+00:00 [Note] [Entrypoint]: Initializing database files  
2021-10-31T04:09:42.482563Z 0 [Warning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use --explicit_defaults_for_timestamp server option (see documentation for more details).  
2021-10-31T04:09:42.624846Z 0 [Warning] InnoDB: New log files created, LSN=45790  
2021-10-31T04:09:42.661305Z 0 [Warning] InnoDB: Creating foreign key constraint system tables.  
2021-10-31T04:09:42.727285Z 0 [Warning] No existing UUID has been found, so we assume that this is the first time that this server has been started. Generating a new UUID: 60094010-3a00-11ec-9bb8-0242ac120002.  
2021-10-31T04:09:42.731591Z 0 [Warning] Gtid table is not ready to be used. Table 'mysql.gtid_executed' cannot be opened.  
2021-10-31T04:09:43.295728Z 0 [Warning] A deprecated TLS version TLSv1 is enabled. Please use TLSv1.2 or higher.  
2021-10-31T04:09:43.295759Z 0 [Warning] A deprecated TLS version TLSv1.1 is enabled. Please use TLSv1.2 or higher.  
2021-10-31T04:09:43.296282Z 0 [Warning] CA certificate ca.pem is self signed.  
2021-10-31T04:09:43.664326Z 1 [Warning] root@localhost is created with an empty password ! Please consider switching off the --initialize-insecure option.  
2021-10-31 04:09:47+00:00 [Note] [Entrypoint]: Database files initialized  
2021-10-31 04:09:47+00:00 [Note] [Entrypoint]: Starting temporary server  
2021-10-31 04:09:47+00:00 [Note] [Entrypoint]: Waiting for server startup  
2021-10-31T04:09:47.989375Z 0 [Warning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use --explicit_defaults_for_timestamp server option (see documentation for more details).  
2021-10-31T04:09:47.990372Z 0 [Note] mysqld (mysqld 5.7.35) starting as process 78 ...  
2021-10-31T04:09:47.993740Z 0 [Note] InnoDB: PUNCH HOLE support available  
2021-10-31T04:09:47.993798Z 0 [Note] InnoDB: Mutexes and rw_locks use GCC atomic builtins  
2021-10-31T04:09:47.993803Z 0 [Note] InnoDB: Uses event mutexes  
2021-10-31T04:09:47.993805Z 0 [Note] InnoDB: GCC builtin __atomic_thread_fence() is used for memory barrier  
2021-10-31T04:09:47.993835Z 0 [Note] InnoDB: Compressed tables use zlib 1.2.11  
2021-10-31T04:09:47.993838Z 0 [Note] InnoDB: Using Linux native AIO  
2021-10-31T04:09:47.994085Z 0 [Note] InnoDB: Number of pools: 1  
2021-10-31T04:09:47.994241Z 0 [Note] InnoDB: Using CPU crc32 instructions  
2021-10-31T04:09:47.997500Z 0 [Note] InnoDB: Initializing buffer pool, total size = 128M, instances = 1, chunk size = 128M  
2021-10-31T04:09:48.010188Z 0 [Note] InnoDB: Completed initialization of buffer pool  
2021-10-31T04:09:48.013389Z 0 [Note] InnoDB: If the mysqld execution user is authorized, page cleaner thread priority can be changed. See the man page of setpriority().  
2021-10-31T04:09:48.026561Z 0 [Note] InnoDB: Highest supported file format is Barracuda.  
2021-10-31T04:09:48.040033Z 0 [Note] InnoDB: Creating shared tablespace for temporary tables  
2021-10-31T04:09:48.040103Z 0 [Note] InnoDB: Setting file './ibtmp1' size to 12 MB. Physically writing the file full; Please wait ...  
2021-10-31T04:09:48.056716Z 0 [Note] InnoDB: File './ibtmp1' size is now 12 MB.  
2021-10-31T04:09:48.057222Z 0 [Note] InnoDB: 96 redo rollback segment(s) found. 96 redo rollback segment(s) are active.  
2021-10-31T04:09:48.057256Z 0 [Note] InnoDB: 32 non-redo rollback segment(s) are active.  
2021-10-31T04:09:48.058885Z 0 [Note] InnoDB: Waiting for purge to start  
2021-10-31T04:09:48.100412Z 0 [Note] InnoDB: 5.7.35 started; log sequence number 2748638  
2021-10-31T04:09:48.111998Z 0 [Note] InnoDB: Loading buffer pool(s) from /var/lib/mysql/ib_buffer_pool  
2021-10-31T04:09:48.112978Z 0 [Note] Plugin 'FEDERATED' is disabled.  
2021-10-31T04:09:48.121441Z 0 [Note] InnoDB: Buffer pool(s) load completed at 211031 4:09:48
```