Your First Container

C:\Users\carlo>docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, h
ead over to https://hub.docker.com to create one.
Username: cavendano01
Password:
Login Succeeded

Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://d
ocs.docker.com/go/access-tokens/

C:\Users\carlo>docker run hello-world

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

Your Second Container

C:\Users\carlo>

C:\Users\carlo>docker pull busybox

Jsing default tag: latest

latest: Pulling from library/busybox

3aab638df1a9: Pull complete

Digest: sha256:52817dece4cfe26f581c834d27a8e1bcc82194f914afe6d50afad5a101234ef1

Status: Downloaded newer image for busybox:latest

docker.io/library/busybox:latest

Checking Images

C:\Users\carlo>docker images REPOSITORY IMAGE ID TAG CREATED SIZE busybox d23834f29b38 1.24MB latest 3 days ago hello-world latest feb5d9fea6a5 2 months ago 13.3kB C:\Users\carlo>

Running Your Second Container

C:\Users\carlo>docker run busybox

C:\Users\carlo>

Running With Extra Parameters

C:\Users\carlo>docker run busybox echo "hello from busybox" hello from busybox

Check Running Containers

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

Check stopped containers

C:\Users\carlo>docker ps -a					
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
ES c7b4e48a9d7a zv kirch	busybox	"echo 'hello from bu"	36 seconds ago	Exited (0) 36 seconds ago	
14213b6d2278 piring liskov	busybox	"ech 'hello from bus"	About a minute ago	Created	
2c6ef5aae017 ry lovelace	busybox	"sh"	About a minute ago	Exited (0) About a minute ago	
69ec5e1b0a0e fy shannon	hello-world	"/hello"	3 minutes ago	Exited (0) 3 minutes ago	
966794d129df	hello-world	"/hello"	4 minutes ago	Exited (0) 4 minutes ago	
sty_jang a53974fa1122 ssful mayer	hello-world	"/hello"	7 minutes ago	Exited (0) 7 minutes ago	

Run and get inside the container

```
C:\Users\carlo>docker run -it busybox sh
/ #
```

Delete Containers

```
C:\Users\carlo>docker rm busybox
Error: No such container: busybox
C:\Users\carlo>docker rm busybox
Error: No such container: busybox
```

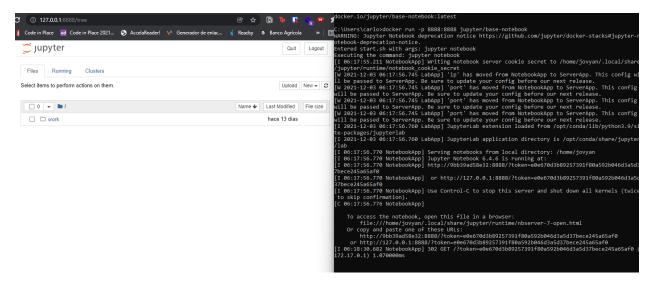
Delete All

```
C:\Users\carlo>docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
0285188b83cf689bcccfdb311965f55035cd65e41b7d5548cd8e32029abf8fee
c7b4e48a9d7a8604812a5d75b3a2414d2d43b1ed2e8f270bb89eddb25f0a4595
14213b6d22781902e4af87a5f7cc68cb47d6599938e252c0792795620414ad1d
2c6ef5aae017a893f8aa9562e929413af3b6f7c92456da13b0386fc523a8f83c
69ec5e1b0a0e93478d69cd7291d98fab6decbcd7d39d26949baf3b94e4b6e78d
966794d129df1441648d0d9db8bf369691140f3b36dd16e06a75c809f5a50f8d
a53974fa1122a11cff7a73806ddbe66879239b3183a375feb6c76f5ab3049e98
Total reclaimed space: 7B

C:\Users\carlo>
```

```
C:\Users\carlo>docker pull jupyter/base-notebook
Using default tag: latest
latest: Pulling from jupyter/base-notebook
7b1a6ab2e44d: Pull complete
23929b31b3e5: Pull complete
91c4e6baf2ce: Pull complete
f81c5b5320f7: Pull complete
b75d7bc61fab: Pull complete
c2186ce702e2: Pull complete
751ed63e8118: Pull complete
eb362f2b25a7: Pull complete
114ba0956228: Pull complete
5eb7f827d077: Pull complete
847987f8ab3d: Pull complete
Digest: sha256:a6303a7879e17dd7eecc7f92aa16806902fdc404407fcb3d671e540db7bc7ca2
Status: Downloaded newer image for jupyter/base-notebook:latest
docker.io/jupyter/base-notebook:latest
C:\Users\carlo>
```

Run Jupyter



Create a Network

```
C:\WINDOWS\system32>docker network create --driver bridge my_test_network
96a5176d28361853479b8672f4827002f0f58817c8ef213efb0e28650c088485
C:\WINDOWS\system32>
```

Run Mysql Container

```
C:\Users\carlo>docker run -it --network my_test_network -e "MYSQL_ROOT_PASSWORD=root123" -e "MYSQL_DATA
BASE=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
f23cbf2ecc5d: Pull complete
30cfc6c29c0a: 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
2021-12-03 06:26:09+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.35-1debian10 star
ted.
2021-12-03 06:26:09+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
2021-12-03 06:26:09+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.35-1debian10 star
```

Run Jupyter With Network

```
C:\Users\carlo>docker run --network my_test_network -p 8888:8888 jupyter/base-notebook
WARNING: Jupyter Notebook deprecation notice https://github.com/jupyter/docker-stacks#jupyter-notebook
-deprecation-notice.
Entered start.sh with args: jupyter notebook
Executing the command: jupyter notebook
I 06:29:59.540 NotebookApp] Writing notebook server cookie secret to /home/jovyan/.local/share/jupyte
-/runtime/notebook_cookie_secret
W 2021-12-03 06:30:01.157 LabApp] 'ip' has moved from NotebookApp to ServerApp. This config will be p
assed to ServerApp. Be sure to update your config before our next release.
W 2021-12-03 06:30:01.157 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 2021-12-03 06:30:01.157 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.
```

Check Running Containers

```
C:\Users\carlo>docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
NAMES
5e6a92eb7db6 jupyter/base-notebook "tini -g -- start-no…" About a minute ago Up About a minute 0.0.0.0:8888->8
388/tcp goofy_haibt
C:\Users\carlo>
```

Accessing Jupyter Container

```
C:\Users\carlo>docker exec -it goofy_haibt sh
$
```

Install Mysql Connector

Check Network

Test our connection