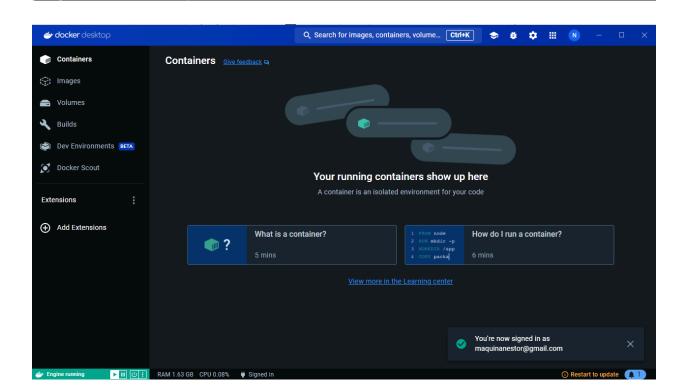
Instalación de Docker. Generar un docker-spark-cluster



Néstor Batista Díaz

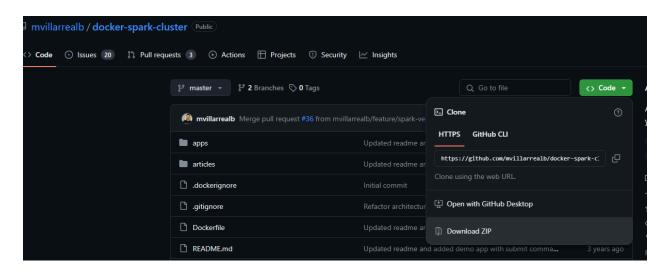
INSTALAR DOCKER

Install Docker Desktop on Windows ① Docker Desktop terms Commercial use of Docker Desktop in larger enterprises (more than 250 employees OR more than \$10 million USD in annual revenue) requires a paid subscription ☑. This page contains the download URL, information about system requirements, and instructions on how to install Docker Desktop for Windows. Docker Desktop for Windows For checksums, see Release notes

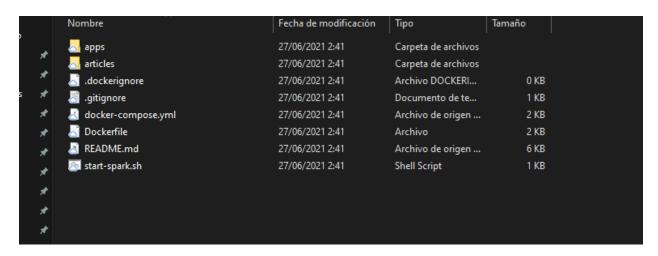


INSTALAR EL CLUSTER DE SPARK

Descargamos el proyecto de github



Descomprimimos



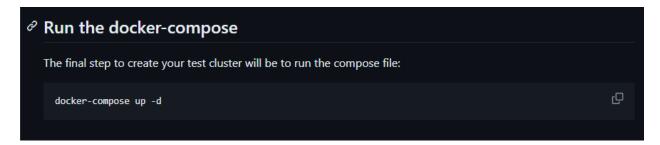
Abrimos CMD y ejecutamos el siguiente código en la carpeta del proyecto

```
Build the image

docker build -t cluster-apache-spark:3.0.2 .
```

```
C:\Windows\system32\cmd.exe
 => => sha256:24de726604f496a8d34cc960f39c3f3d825ebba522d8be7b256f8b289a448508 549B / 549B
 => => sha256:891cdfaa81b9c4fd2d95f3539c4037c2ab928b2c0b90a00b2da92d26d0d4ea42 47.08MB / 47.08MB
 => => extracting sha256:b4d181a07f8025e00e0cb28f1cc14613da2ce26450b80c54aea537fa93cf3bda
 => extracting sha256:3ee45ae9730633057cf9bd12924f9a1bf2b590631d3d085b14c96f4466557794
 => => extracting sha256:567d410fadc4d7125fabe9cbac4ac3b566d498b3d8050c0405bdd78fdb4a384d
    [internal] load build context
     [builder 2/4] RUN apt-get update && apt-get install -y curl vim wget software-properties-common ssh net-tool [builder 3/4] RUN update-alternatives --install "/usr/bin/python" "python" "$(which python3)" 1 [builder 4/4] RUN wget --no-verbose -O apache-spark.tgz "https://archive.apache.org/dist/spark/spark-3.0.2/
     [apache-spark 1/3] WORKDIR /opt/spark
[apache-spark 2/3] RUN mkdir -p /opt/spark/logs && touch /opt/spark/logs/spark-master.out && touch /opt/spark
[apache-spark 3/3] COPY start-spark.sh /
                                                                                                                                                               0.45
                                                                                                                                                                0.05
=> exporting to image
=> => exporting layers
 => => writing image sha256:581dbef9776727bdb6c029ad2a37eec032f710a56c020724af718e7d9db02ec9 => naming to docker.io/library/cluster-apache-spark:3.0.2
                                                                                                                                                                0.05
                                                                                                                                                                0.05
What's Next?
  View a summary of image vulnerabilities and recommendations \rightarrow docker scout quickview
```

Ejecutamos Docker compose



```
10/10er FP IA y BD\SPS\docker-spark\docker-spark-cluster-master>docker-compose up -d
  demo-database 9 layers [[
                                                      Pulled
                                           0B/0B
   cbdbe7a5bc2a Pull complete
   b52a8a2ca21a Pull complete
   e36a19831e31 Pull complete
   f1aa26821845 Pull complete
   412d098142b4 Pull complete
   75d5ef10726d Pull complete
   ae3b5a8bbf62 Pull complete
e2f290791a5c Pull complete
   187b81308ed8 Pull complete
+] Running 4/5
  Network docker-spark-cluster-master_default
                                                            Create...
  Container docker-spark-cluster-master-demo-database-1
  Container docker-spark-cluster-master-spark-master-1
  Container docker-spark-cluster-master-spark-worker-b-1
  Container docker-spark-cluster-master-spark-worker-a-1 Started
```

Comprobamos que funciona

