Practica integradora proyecto datascience modulo 4 Realizado por Franco Batista

Paso 1

Cargamos el directorio con los archivos desde github:

https://github.com/lopezdar222/herramientas_big_data

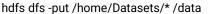
Cargamos los archivos de configuracion Docker compouse.yml

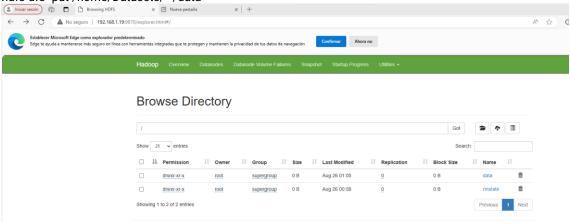
sudo docker-compose -f docker-compose-v1.yml up -d

sudo docker exec -it namenode bash

sudo docker cp ./Datasets namenode:/home/Datasets

hdfs dfs -mkdir -p /data







This XML file does not appear to have any style information associated with it.

```
▼<configuration>
 ▼property>
     <name>mapreduce.jobhistory.jhist.format</name>
     <value>binary</value>
     <final>false</final>
     <source>mapred-default.xml</source>
  </property>
 ▼property>
     <name>fs.s3a.retry.interval</name>
     <value>500ms</value>
     <final>false</final>
     <source>core-default.xml</source>
  </property>
 ▼property>
     <name>dfs.block.access.token.lifetime</name>
     <value>600</value>
     <final>false</final>
     <source>hdfs-default.xml</source>
   </property>
 ▼property>
     <name>mapreduce.job.heap.memory-mb.ratio</name>
     <value>0.8</value>
     <final>false</final>
     <source>mapred-default.xml</source>
  </property>
 ▼property>
    <name>mapreduce.map.log.level</name>
    <value>INFO</value>
     <final>false</final>
     <source>mapred-default.xml</source>
  </property>
 ▼property>
     <name>dfs.namenode.lazypersist.file.scrub.interval.sec</name>
     <value>300</value>
     <final>false</final>
     <source>hdfs-default.xml</source>
  </property>
 ▼property>
    <name>file.bytes-per-checksum</name>
    <value>512</value>
    <final>false</final>
     <source>core-default.xml</source>
  </property>
 ▼property>
     <name>mapreduce.client.completion.pollinterval</name>
     <value>5000</value>
     <final>false</final>
     <source>mapred-default.xml</source>
  </property>
 ▼property>
    <name>fs.azure.secure.mode</name>
    <value>false</value>
    <final>false</final>
     <source>core-default.xml</source>
   </property>
```

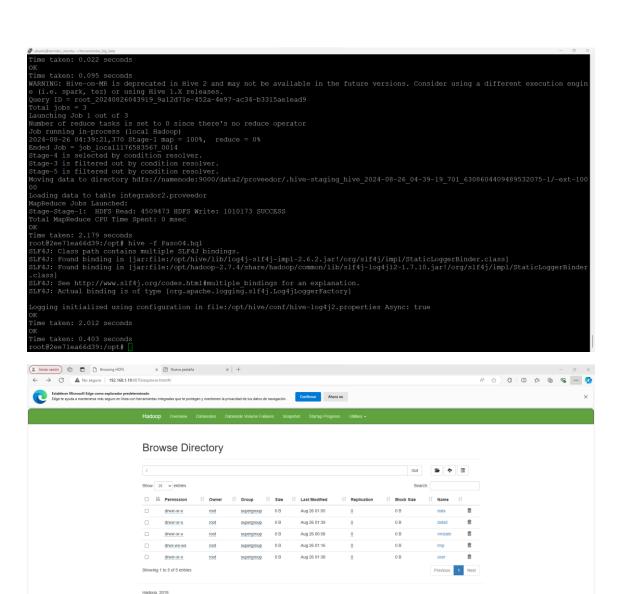
Paso 2

sudo docker-compose -f docker-compose-v2.yml up -d

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se Crean tablas en Hive, tomando como referencia los csv ingestados en HDFS.

```
Status: Downloaded newer image for bde2020/hive-metastore-postgresql:2.3.0
resourcemanager is up-to-date
Treating hive-metastore-postgresql ...
datanode is up-to-date
Treating hive-metastore ...
Treating hive-metastore ...
Creating hive-metastore ...
Treating hive-metastore ...
Treating hive-metastore ...
Treating hive-server is up-to-date
Indemanager is
   class]
LRF4J: See http://www.s1f4j.org/codes.html#multiple_bindings for an explanation.
LF4J: Actual binding is of type [org.apache.logging.s1f4j.Log4jLoggerFactory]
    ogging initialized using configuration in file:/opt/hive/conf/hive-log4j2.properties Async: true
ive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. s
ark, tez) or using Hive 1.X releases.
ive> show databases;
      erault
ime taken: 1.549 seconds, Fetched: 1 row(s)
ive> use default
    ime taken: 0.084 seconds
ive> show tables
```



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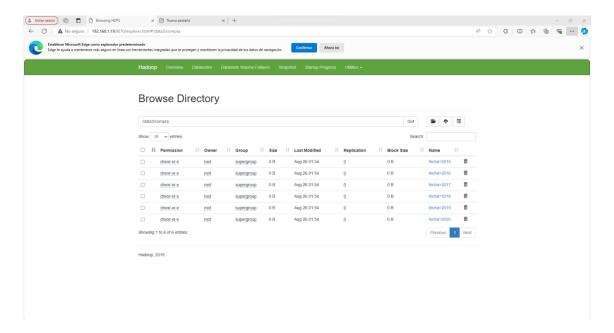
Paso 3

```
Auunching Job 1 out of 3
Number of reduce tasks is set to 0 since there's no reduce operator
Job running in-process (local Haddop)
2024-08-26 04:54:29,514 Stage-1 map = 100%, reduce = 0%
Ended Job = job 1 local1331593012_0005
Stage-4 is selected by condition resolver.
Stage-3 is filtered out by condition resolver.
Stage-3 is filtered out by condition resolver.
Moving data to directory hdfs://namenode:9000/data3/compra/fecha=2019/.hive-staging_hive_2024-08-26_04-54-27_659_8677923466516993607-1/
-ext-10000
Loading data to table integrador3.compra partition (fecha=2019)
MapReduce Jobs Launched:
Stage-Stage-1: HDFS Read: 1954656 HDFS Write: 103929 SUCCESS
Total MapReduce CFU Time Spent: 0 msec
OK
Time taken: 2.315 seconds
WARRING: Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engin e (i.e. spark, tez) or using Hive IX releases.
Query ID = root 20240826045429_cd15d48a-6ba7-444d-82f7-618ccb9148b9
Total jobs = 3
Launching Job 1 out of 3
Number of reduce tasks is set to 0 since there's no reduce operator
Job running in-process (local Haddop)
2024-08-26 04:54:31,75 stage-1 map = 100%, reduce = 0%
Ended Job = job local288620901_0006
Stage-4 is selected by condition resolver.
Stage-3 is filtered out by condition resolver.
Stage-3 is filtered out by condition resolver.
Moving data to directory hdfs://hamenode:9000/data3/compra/fecha=2020/.hive-staging_hive_2024-08-26_04-54-29_986_9118169005028873365-1/
-ext-10000
Loading data to table integrador3.compra partition (fecha=2020)
MapReduce Jobs Launched:

KTIME taken: 2.263 seconds

Time taken: 2.263 seconds

Time taken: 2.263 seconds
```



Paso 4

```
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```