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Docker Tutorial: Apache Spark (spark-shell) & parquet-tools - csv to parquet on

Cloudera quickstart

16: Docker Tutorial: Apache Spark (sparkshell) & parquet-tools – csv to parquet on Cloudera quickstart



This extends Docker Tutorial: BigData on Cloudera quickstart via Docker.

Step 1: Run the container on a command line.

- 1 ~/projects/docker-hadoop]\$ docker run --hostname=qu
- 2 --privileged=true -t -i -v /Users/arulkumarankumar
- 3 --publish-all=true -p 8888:8888 -p 80:80 -p 7180:71

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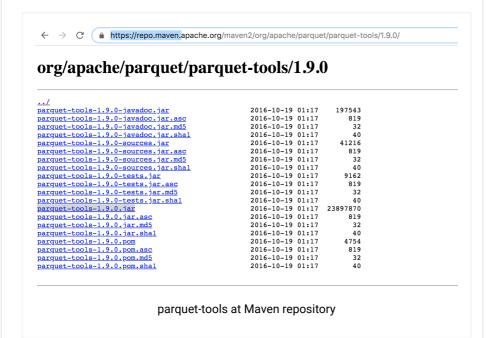
TUT - Starting Spark & Scala

Get parquet-tools

Step 2: Install wget. The "uname -a" gets you the info of the kernel.

1 [root@quickstart /]# sudo yum install wget

Step 3: Download "parquet-tools" from maven repository using wget.



1 [root@quickstart /]# wget https://repo.maven.apach

Hive table over .csv

Step 4: Create a csv file "employee.csv" in the local file system.

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```
2 Peter, Smith, Finance
3 Sean, Mendis, Marketing
```

Step 5: Copy this file onto HDFS file system.

```
1 [root@quickstart /]# hdfs dfs -copyFromLocal employ
```

spark-shell

Step 6: Download Spark-csv from maven repository for Scala version 2.10.

```
1 [root@quickstart /]# wget https://repo.maven.apacho
2
3 [root@quickstart /]# wget https://repo.maven.apacho
4
```

Step 7: spark-shell is useful in interactive coding in Scala.

```
1  [root@quickstart /]# spark-shell --jars spark-csv_2
2  ....
3  scala>
4

1  [root@quickstart /]# ls -ltr
2  ....
3  -rw-r--r-- 1 root root 165361 Sep 5 2016 span
4  -rw-r--r-- 1 root root 23897870 Oct 19 2016 pare
5  -rw-r--r-- 1 root root 42400 Sep 19 2018 comm
6  ...
7
```

Alternatively you can use -packages:

```
1 [root@quickstart /]# spark-shell --packages com.da
```

Step 8: Scala code to read from a csv file into a dataframe.

```
2
  scala> val dfCsv = sqlContext.read.format("csv").
3
  scala> dfCsv.show()
      C0| C1|
5
6
  +----+
  | John|Samuel|
7
                     ITI
  ||Peter||Smith||Finance|
8
9
  | | Sean|Mendis|Marketing|
10 | +----+
11
12
13 | scala> dfCsv.write.parquet("hdfs:///user/root/spar
14
```

Step 9: Exit out of the spark-shell.

```
[root@quickstart /]# hdfs dfs -ls hdfs:///user/roo
  | Found 5 items
  -rw-r--r-- 1 root supergroup 0 2019-06
3
  -rw-r--r-- 1 root supergroup
                                     386 2019-06
5
  -rw-r--r-- 1 root supergroup
                                    1065 2019-06
                                   760 2019-06
  -rw-r--r-- 1 root supergroup
6
7
  3-bc74-140ead01143c.gz.parquet
  -rw-r--r-- 1 root supergroup
                                    760 2019-06
8
  3-bc74-140ead01143c.gz.parquet
10 | root@quickstart / ]#
11
```

parquet-tools

```
[root@quickstart /]# hadoop jar parquet-tools-1.9
2
   af3-bc74-140ead01143c.gz.parquet
3
  19/06/03 12:06:08 INFO hadoop.InternalParquetRecor
5
   C0 = John
6
  C1 = Samuel
7
   C2 = IT
8
9
  CO = Peter
10 \mid C1 = Smith
11 \mid C2 = Finance
12
```

```
[root@quickstart /]#
14
  [root@quickstart /]# hadoop jar parquet-tools-1.9.0
2
3
 19/06/03 12:12:23 INFO hadoop.InternalParquetRecord
4
  C0 = Sean
5
  C1 = Mendis
  C2 = Marketing
6
7
8
  [root@quickstart /]#
9
```

 15: Docker Tutorial: Hive & parquet-tools – csv to parquet on Cloudera quickstart

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