

```
oot@521fd7f8211e:/# ls
nnkarbook.txt dev
                 dev execute-step.sh home media proc sbin sys var
entrypoint.sh finish-step.sh lib mnt root spark tmp wait-for-step.sh
etc hadoop-data lib64 opt run srv usr worker.sh
 oot@521fd7f8211e:/spark# ls
root@521rd7f821le:/Spark# LS
LTCENSE NOTICE README.md RELEASE bin conf data examples jars licenses logs python sbin work yarn
root@521fd7f821le:/spark# ./bin/spark-shell
Setting default log level to "WARN".
To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(newLevel).
22/11/19 17:83:45 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
22/11/19 17:83:53 WARN metastore.ObjectStore: Version information not found in metastore. hive.metastore.schema.verification is not enabled so reco
22/11/19 17:03:55 WARN metastore.objectstore: Version information not found in metastore. nive.metastore.schema.Ved ding the schema version 1.2.0 
22/11/19 17:03:55 WARN metastore.ObjectStore: Failed to get database default, returning NoSuchObjectException 
22/11/19 17:03:55 WARN metastore.ObjectStore: Failed to get database global_temp, returning NoSuchObjectException 
Spark context Web UI available at http://172.21.0.7:4040 
Spark context available as 'sc' (master = local[*], app id = local-1668877426355). 
Spark session available as 'spark'. 
Welcome to
    ----
/ __/_ ____/ '__
-\ \/ _ \/ _ '/ _ \/ '_/
-_/ \-_/\-, _/ /_/\_\ version 2.1.2-SNAPSHOT
Using Scala version 2.11.8 (OpenJDK 64-Bit Server VM, Java 1.8.0_121)
Type in expressions to have them evaluated.
Type :help for more information.
cala>
 Using Scala version 2.11.8 (OpenJDK 64-Bit Server VM, Java 1.8.0_121)
 Type in expressions to have them evaluated. Type :help for more information.
 scala> import org.apache.spark.sql.SparkSession
 import org.apache.spark.sql.SparkSession
 scala> val spark = SparkSession.builder().master("local[1]").appName("1TSparkFirst").getOrCreate()
 22/11/19 17:14:58 WARN sql.SparkSession$Builder: Using an existing SparkSession; some configuration may not take ef
 spark: org.apache.spark.sql.SparkSession = org.apache.spark.sql.SparkSession@28d1b2f
 scala> val vim = spark.read.textFile("/user/cloudera/annkarbook.txt")
 vim: org.apache.spark.sql.Dataset[String] = [value: string]
 scala> val wordCount = vim.flatMap(line => line.split(" ")).groupByKey(identity).count()
wordCount: org.apache.spark.sql.Dataset[(String, Long)] = [value: string, count(1): bigint]
 scala> wordCount.show(10)
 22/11/19 17:23:01 WARN executor.Executor: Managed memory leak detected; size = 4456448 bytes, TID = 2
                        value|count(1)|
         ****
                          XVII
                                             9
                          tant
                                             3|
                       ♦♦♦?..
                                            12|
                                            1|
                       pluck,
                           some
                                            4|
1|
             *********133
root@1e5e7524f7a8:/# hdfs dfs -ls /user/cloudera
Found 1 items
-rw-r--r-- 3 root cloudera
                                                              1853821 2022-11-19 15:58 /user/cloudera/annkarbook.txt
root@1e5e7524f7a8:/# hdfs dfs -chmod 764 /user/cloudera/annkarbook.txt
root@1e5e7524f7a8:/# hdfs dfs -ls /user/cloudera
Found 1 items
-rwxrw-r--    3 root cloudera      1853821 2022-11-19 15:58 /user/cloudera/annkarbook.txt
root@1e5e7524f7a8:/# hdfs dfs -du -h /user/cloudera/annkarbook.txt
1.8 M /user/cloudera/annkarbook.txt
root@1e5e7524f7a8:/#
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\Users\marai\Documents\Data\_Engineer\Docker\_Hadoop\_Spark\_Image\docker-hadoop-spark-workbench-master> docker exec -it 521fd7f8211e bash