

Hadoop: Hands-On: Spark WordCount



SPARK WORDCOUNT

Start Spark Session:



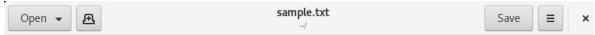
Step 1: Import Spark packages

```
valsparkDummy = spark import sparkDummy.implicits._
```

```
scala> val sparkDummy = spark
sparkDummy: org.apache.spark.sql.SparkSession = org.apache
.spark.sql.SparkSession@11a0c708
scala> import sparkDummy.implicits._
import sparkDummy.implicits._
```

Step 2: Create a text file named 'sample.txt' in your system with the following content:

Apache Spark is an open-source distributed general-purpose cluster-computing framework. Spark provides an interface for programming entire clusters with implicit data parallelism and fault tolerance.



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Step 3: Import the dataset

```
val text = (spark.read.text("sample.txt").as[String])
```

```
scala> val text = (spark.read.text("sample.txt").as[String])
text: org.apache.spark.sql.Dataset[String] = [value: string]
```

Step 4: Split the data using the 'flatMap' function

```
val counts = (text.flatMap(line =>line.split("\\s+"))
.groupByKey(_.toLowerCase)
.count)
```

```
scala> val counts = (text.flatMap(line => line.split("\\s+"))
| .groupByKey(_.toLowerCase)
| .count)
counts: org.apache.spark.sql.Dataset[(String, Long)] = [value: string
, count(1): bigint]
```



Step 5: Count the appearance of a particular value

```
counts.orderBy($"count(1)" desc).show
```