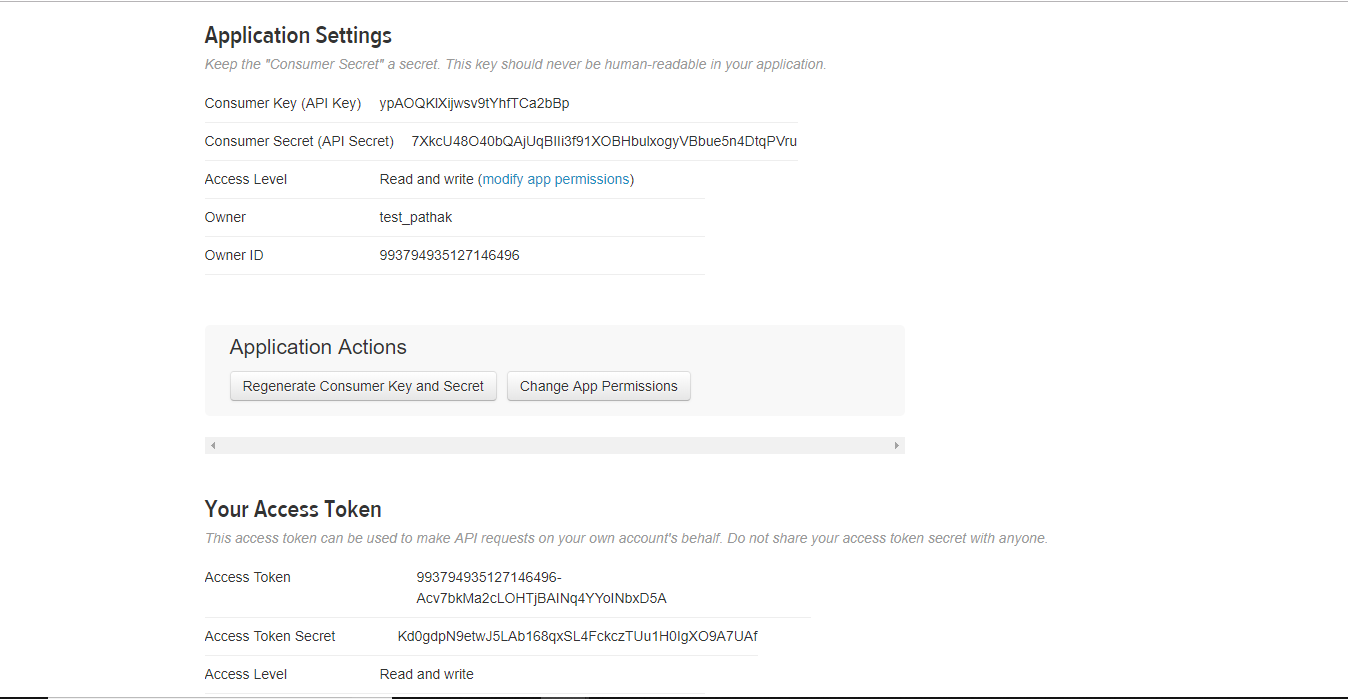
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| Module 11 – Apache Spark Streaming |
| In-Class Demo |

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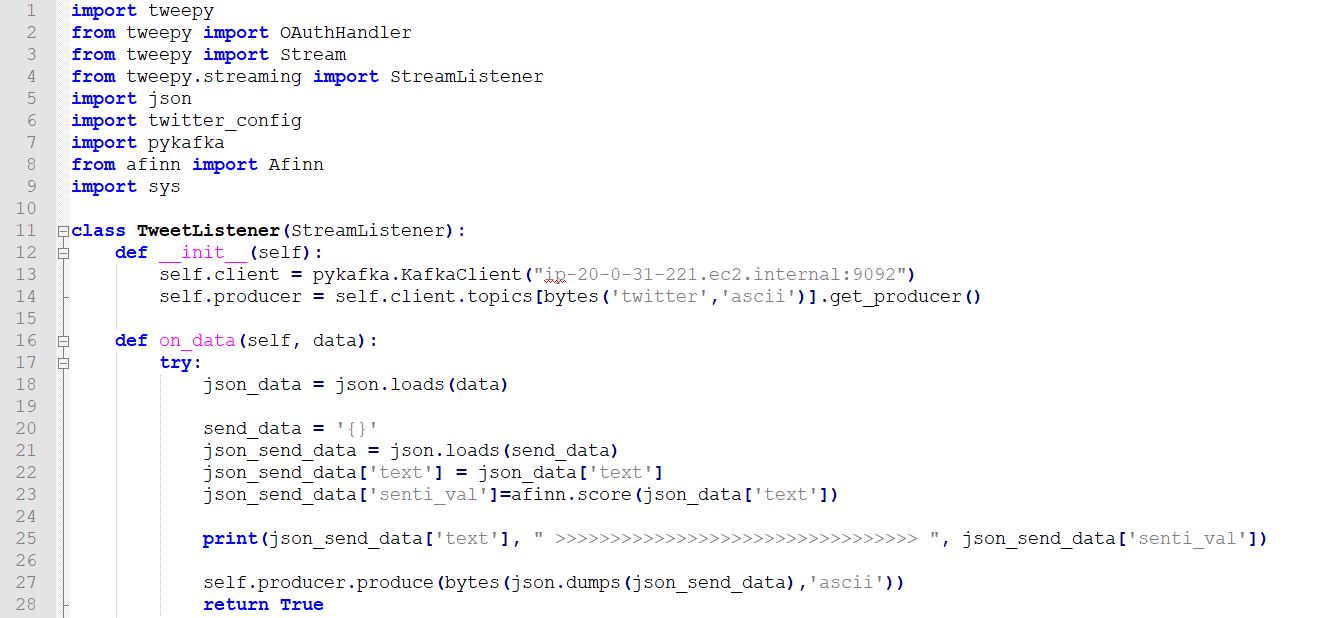
### **Step 1:** Create a developer account of Twitter and then create a new app inside it. Once you do this use the credentials for your project.



### **Step 2:** Copy these credentials inside twitter\_config.py file and save on your ftp. The file has been uploaded on LMS.

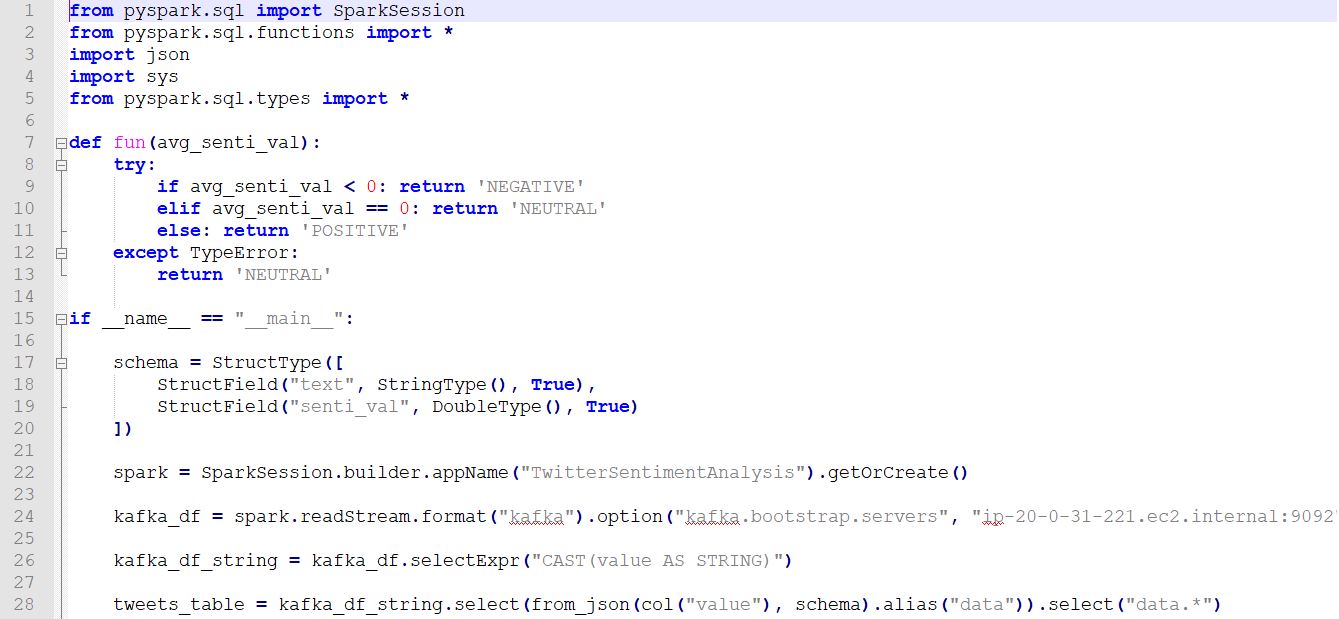


### **Step 3:** Create a tweet\_listener.py file and upload the same on ftp. The file has been uploaded on LMS.



Enter the host name of active kafka client. You can find the same from Cloudera manager.

### **Step 4:** Create a tweet\_analyzer.py file and upload the same on ftp. The file has been uploaded on LMS.

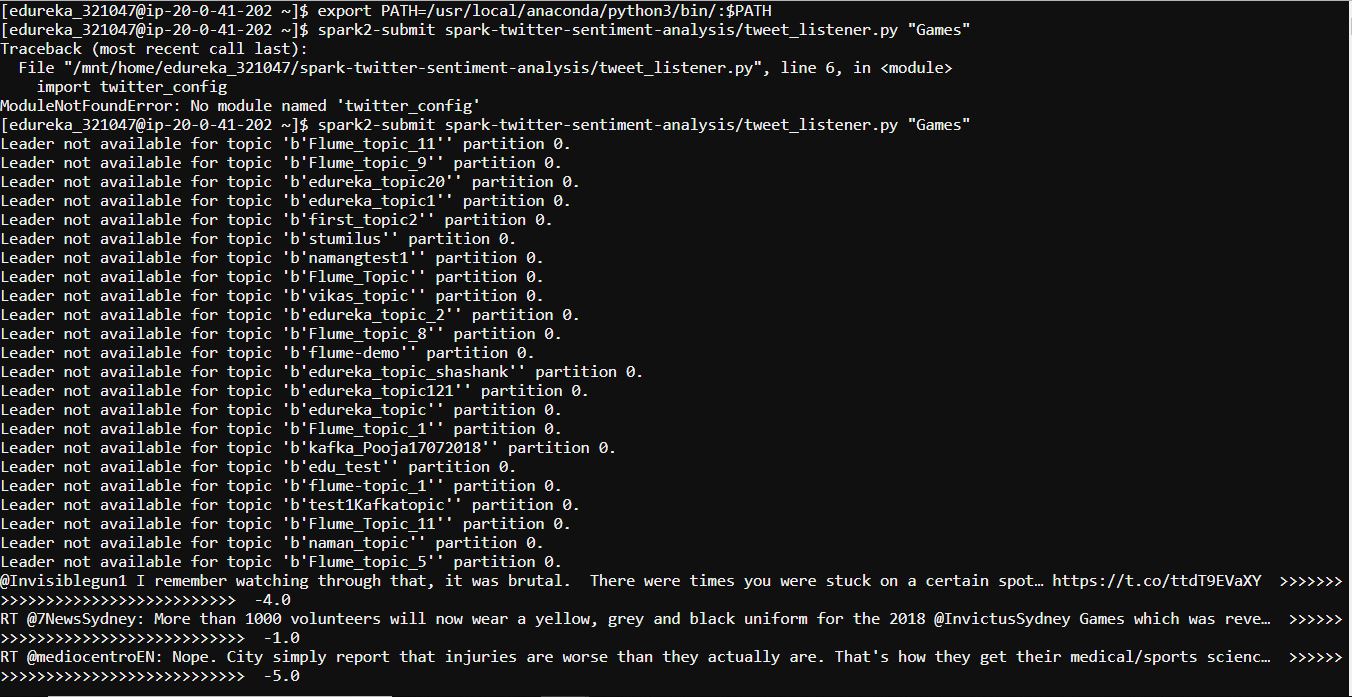


Enter the host name of active kafka client. You can find the same from Cloudera manager.

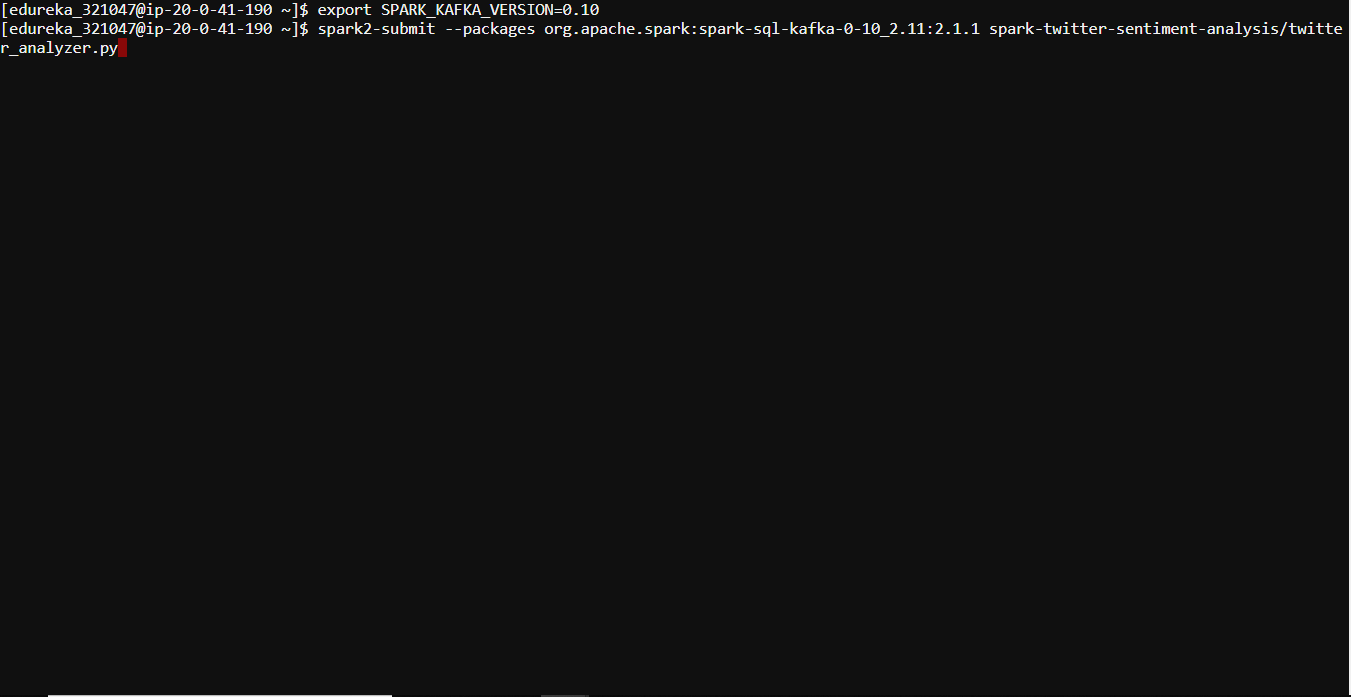
### **Step 5:** Run the command ***export PATH=/usr/local/anaconda/python3/bin/:$PATH*** on the web console.

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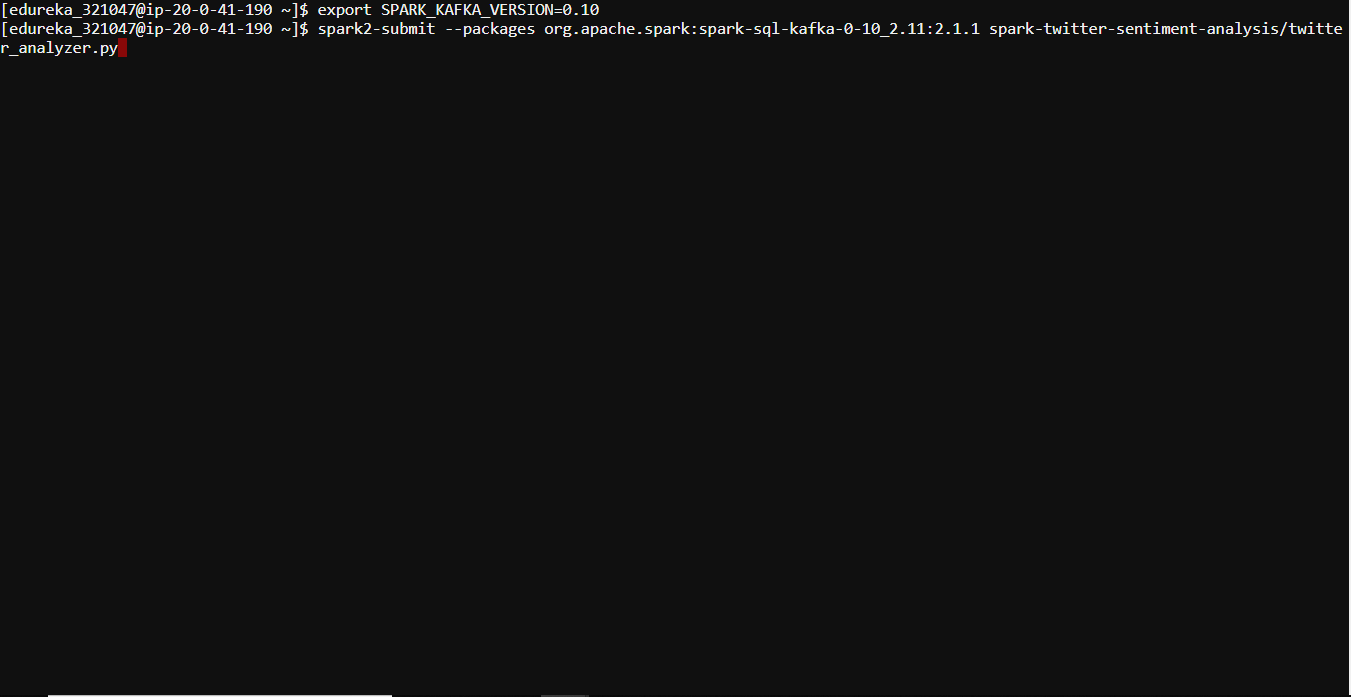
### **Step 6:** Run the command ***spark2-submit PATH\_OF\_FILE/tweet\_listener.py “Name of keyword”*** on the web console. Here *Games* is the keyword. As soon as you run the command you can see the tweets on console.



### **Step 7:** Run the command ***export SPARK\_KAFKA\_VERSION=0.10*** on the web console.



**Step 8:** Run the command ***spark2-submit --packages org.apache.spark:spark-sql-kafka-0-10\_2.11:2.1.1 PATH\_OF\_FILE/tweet\_analyzer.py*** on the web console



**Step 9:** As soon as you run the command you will be able to see the twitter json output stream along with its prediction and sentiment value.

