ASSIGNMENT 12

Creating a flume agent to stream data from twitter and store on HDFS

Step1: Creating a Twitter app

Step 2: Copying the consumer key and the consumer secret code

Step 3: creating the acceess token

Downlanding flume tar file and save it under bashrc.file

[acadgild@localhost ~]\$ sudo ged**i**t .bashrc

```
# .bashrc
# Source global definitions
if [ -f /etc/bashrc ]; then
        . /etc/bashrc
# User specific aliases and functions
export JAVA HOME=/usr/java/jdk1.8.0 151
export PATH=$PATH:$JAVA HOME/bin
# Below 2 lines we have to add for HADOOP Installation
export HADOOP HOME=/home/acadgild/install/hadoop/hadoop-2.6.5
export PATH=$PATH:$JAVA HOME/bin:$HADOOP HOME/sbin:$HADOOP HOME/bin
export HADOOP COMMON LIB NATIVE DIR=/home/acadgild/install/hadoop/hadoop-2.6.5/lib/native
export HADOOP CONF DIR=/home/acadgild/install/hadoop/hadoop-2.6.5/etc/hadoop/
# Below 2 lines we have to add for PIG Installation
export PIG HOME=/home/acadgild/install/pig/pig-0.16.0
export PATH=$PATH:$PIG_HOME/bin
# Below 2 lines we have to add for HIVE Installation
export HIVE_HOME=/home/acadgild/install/hive/apache-hive-2.3.2-bin
export PATH=$PATH:$HIVE_HOME/bin
#BElow 2 lines we have to add for SPARK Installation
export SPARK_HOME=/home/acadgild/install/spark/spark-2.2.1-bin-hadoop2.7
export PATH=$PATH:$SPARK HOME/bin
```

Update bashrc file

```
[acadgild@localhost ~]$ source.bashrc
```

Creating a new file under Flume-extracted directory

Change the twitter api keys with the keys generated
TwitterAgent.sources = Twitter
TwitterAgent.channels = MemChannel
TwitterAgent.sinks = HDFS

Describing/Configuring the source

TwitterAgent.sources.Twitter.type = org.apache.flume.source.twitter.TwitterSource

TwitterAgent.sources.Twitter.consumerKey=uX0TWqkx0okYEjjqLzxIx6mD6

TwitterAgent.sources.Twitter.consumerSecret=rzHIs3TMJnADbZNvdGU7LQUo0kPxPISq3RGSLfqcBip39X5END

TwitterAgent.sources.Twitter.accessToken=559516596-yDA9xqOljo4CV32wSnqsx2BXh4RBIRKFxZGSZrPC

TwitterAgent.sources.Twitter.accessTokenSecret=zDxePILZitS5tlWBhre0GWqps0Flj9OadX8RZb6w8ZCwz

TwitterAgent.sources.Twitter.keywords=hadoop, bigdata, mapreduce, mahout, hbase, nosql

Describing/Configuring the sink

TwitterAgent.sources.Twitter.keywords=hadoop,election,sports, cricket,Big data

TwitterAgent.sinks.HDFS.channel=MemChannel

TwitterAgent.sinks.HDFS.type=hdfs

TwitterAgent.sinks.HDFS.hdfs.path=hdfs://localhost:9000/user/flume/tweets

TwitterAgent.sinks.HDFS.hdfs.fileType=DataStream

TwitterAgent.sinks.HDFS.hdfs.writeformat=Text

TwitterAgent.sinks.HDFS.hdfs.batchSize=1000

TwitterAgent.sinks.HDFS.hdfs.rollSize=0

TwitterAgent.sinks.HDFS.hdfs.rollCount=10000

TwitterAgent.sinks.HDFS.hdfs.rollInterval=600

TwitterAgent.channels.MemChannel.type=memory

TwitterAgent.channels.MemChannel.capacity=10000
TwitterAgent.channels.MemChannel.transactionCapacity=1000

TwitterAgent.sources.Twitter.channels = MemChannel
TwitterAgent.sinks.HDFS.channel = MemChannel

Creating a new directory

[acadgild@localhost ~]\$ hadoop fs -mkdir - p /user/flume/tweets/

fetching the data from twitter using the command

```
File Edit View Search Terminal Help

[hadoop@acadgild ~]$ flume-ng agent -n TwitterAgent -f /home/hadoop/HADOOP/apache-flume-1.6.0-bin/conf/flume.conf
```

OP is obtained by the cat command

[hadoop@acadgild ~]\$ hadoop dfs -cat /user/flume/tweets/FlumeData.1450940925854 DEPRECATED: Use of this script to execute hdfs command is deprecated. Instead use the hdfs command for it.