Assignment-12 Flume

Task: Create a flume agent that streams data from Twitter and stores in the HDFS.

Solution: I will explain the step-by-step process to stream data from Twitter and stores in the HDFS.

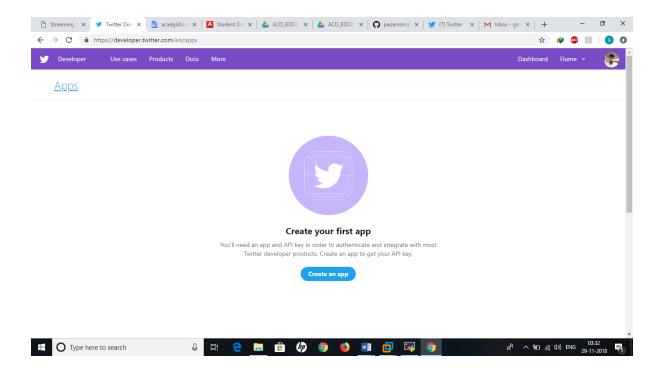
Step 1:

Login to the twitter account.

Step 2:

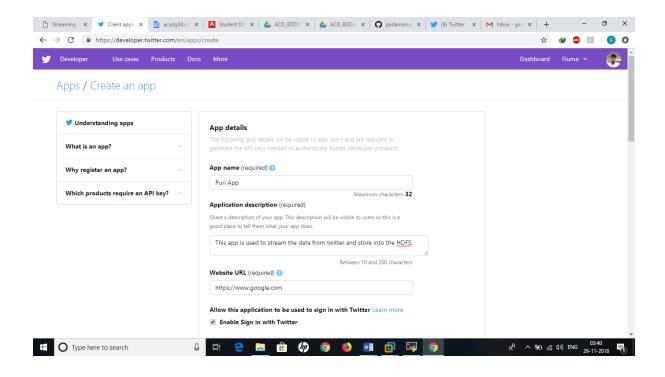
Go to the following link and click the 'create new app' button.

https://apps.twitter.com/app



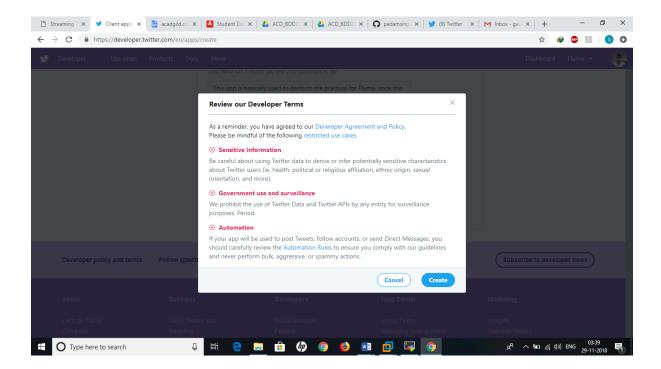
Step 3:

Enter the necessary details.



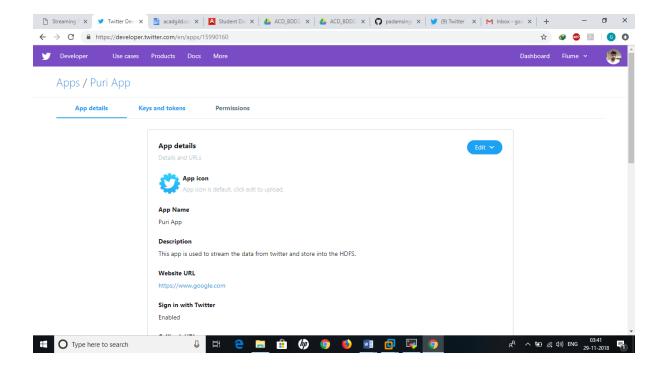
Step 4:

Accept the developer agreement and select the 'create your Twitter application' button.



Step 5:

Select the 'Keys and Access Token' tab.



Step 6:

Copy the consumer key and the consumer secret code.

Step 7:

Scroll down further and select the 'create my access token' button.

Now, you will receive a message stating "that you have successfully generated your application access token".

Step 8:

Copy the Access Token and Access token Secret code.

Step 9:

Create a new file inside the conf directory inside the Flume-extracted directory and named as flume.conf with the configuration.

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Step 10:

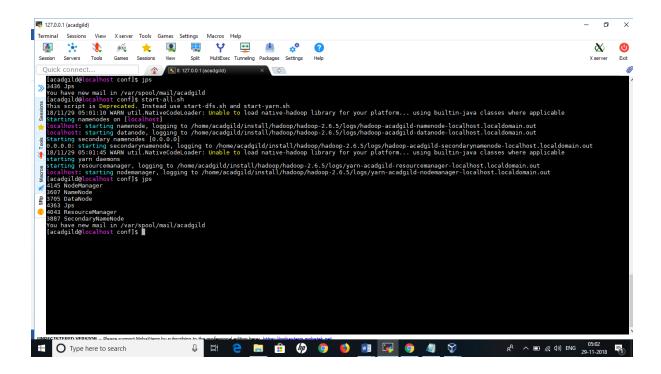
We have to decide which keywords tweet data to be collected from the twitter application. So, you can change the keywords in the TwitterAgent.sources.Twitter.keywords command.

In our example, we are fetching tweet data related to KartarpurCorridor, Modi

Step 11:

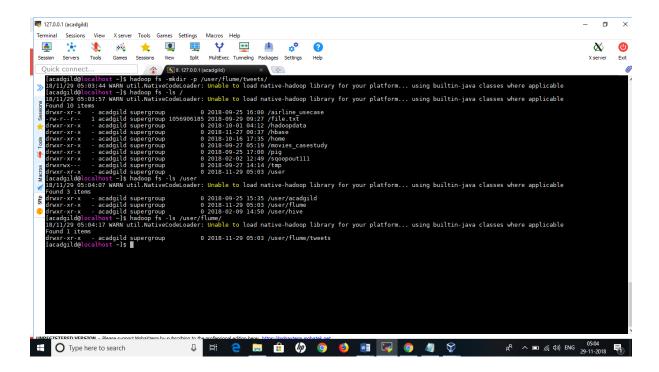
Open a new terminal and start all the Hadoop daemons, before running the flume command to fetch the twitter data.

Use the 'jps' command to see the running Hadoop daemons.



Step 12:

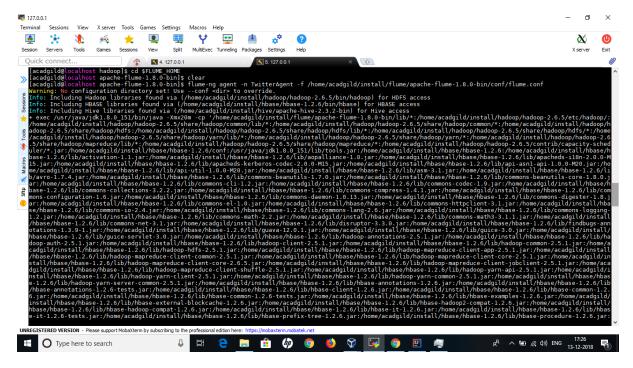
Create a new directory inside HDFS path, where the Twitter tweet data should be stored. Hadoop fs –mkdir /user/flume/tweets



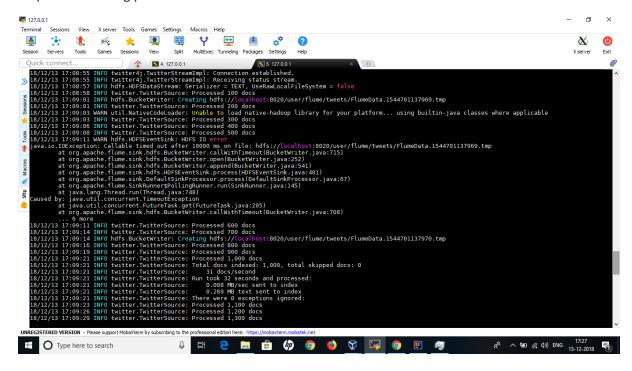
Step 13:

For fetching data from Twitter, Use the below command to fetch the twitter tweet data into the HDFS cluster path.

flume-ng agent -n TwitterAgent -f /home/acadgild/install/flume/apache-flume-1.8.0-bin/conf/flume.conf



Once, the tweet data started streaming it into the given HDFS path we can use 'Ctrl+c' command to stop the streaming process.



Step 14:

To check the contents of the tweet data we can use the following command: hadoop fs —ls /user/flume/tweets

