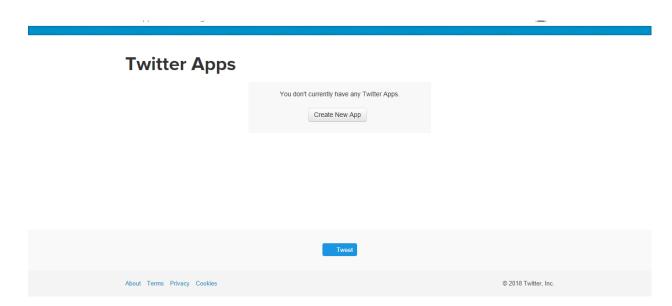
Assignment 11.2

Twitter data analysis using flume

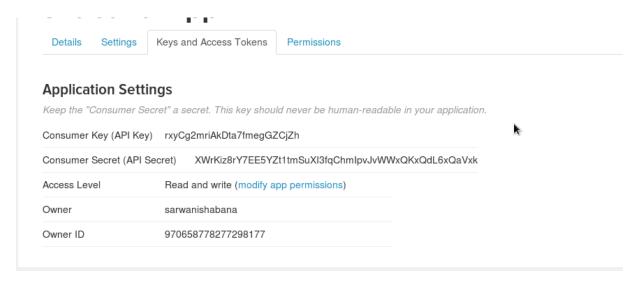
Step1: Login into twitter account ,then head to https://apps.twitter.com/
As shown below,



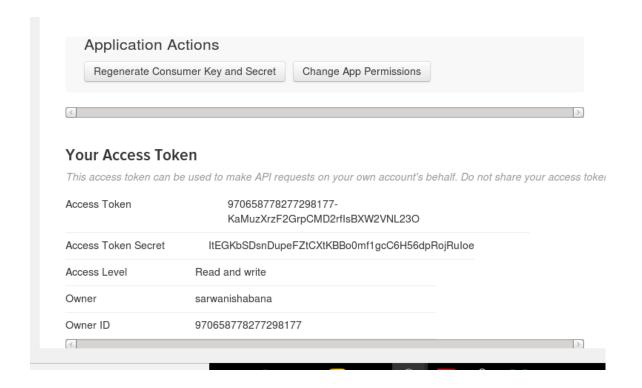
Step2: select "create New App " option and fill out all details as shown below

Application Details Name * Analysis purpose Your application name. This is used to attribute the source of a tweet and in user-facing authorization screens. 32 characters max. Description * This help me to anlaysis twitter data and store into hdfs: Your application description, which will be shown in user-facing authorization screens. Between 10 and 200 characters max. Website * www.yahoo.com Your application's publicly accessible home page, where users can go to download, make use of, or find out more information about your application. This fully-qualified UTL is used in the source attribution for tweets created by your application and will be shown in user-facing authorization screens. (If you don't have a UTL yet, just put a placeholder here but remember to change it later.) Callback URL Where should we return after successfully authenticating? CAuth 1.0a applications should explicitly specify their oauth_callback URL on the request token step, regardless of the value given here. To restrict your application from using callbacks, leave this field blank.

Step3: Now select Keys and Access Tokens labels as shown below, copy consumer key(API key) ,consumer secret



Step4: Scroll down and click on "create my access token", and we will get as shown below and copy access token and access token secret

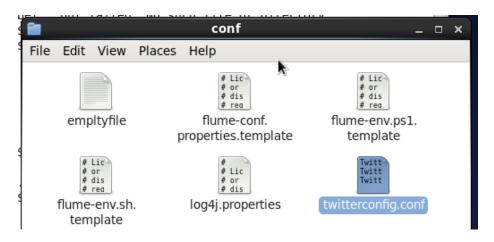


Step5: Copy all in any text file as shown below

Step6: Open acadgild VM terminal and create tweets directory under flume, flume under user as shown below

```
File Edit View Search Terminal Help
(gedit:8147): Gtk-WARNING **: Attempting to set the permissions of `/root/.local
/share/recently-used.xbel', but failed: No such file or directory
[acadgild@localhost ~]$ source .bashrc
[acadgild@localhost ~]$ jps
3237 NameNode
3482 SecondaryNameNode
8365 Jps
3661 ResourceManager
3341 DataNode
3775 NodeManager
[acadgild@localhost ~]$ hadoop fs -mkdir /user/flume
18/03/04 09:23:09 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
[acadgild@localhost ~]$ hadoop fs -mkdir /user/flume/tweets
18/03/04 09:23:24 WARN util.NativeCodeLoader: Unable to load native-hadoop libra
ry for your platform... using builtin-java classes where applicable
```

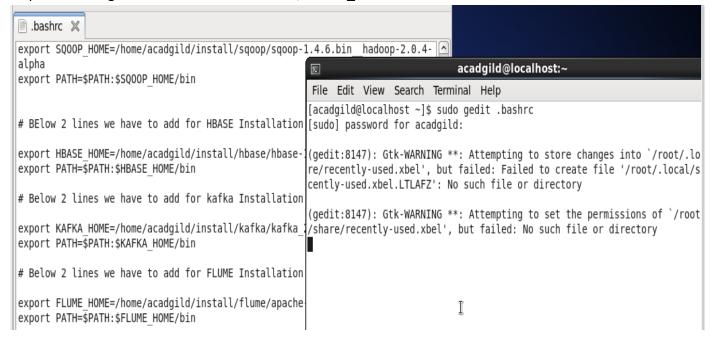
Step7: Twiiter configuration file is placed inside /flume/conf directory as shown below,content is shown in next slide



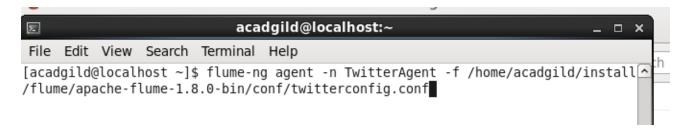
Step8: Access key ,Access Token, Consumer key ,Cosumer Secret are replaced with those are copied previously from our own application, and Keywords can also be changed as per our requirement as shown below

```
*twitterconfig.conf ×
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=rxyCg2mriAkDta7fmegGZCjZh
TwitterAgent.sources.Twitter.consumerSecret=XWrKiz8rY7EE5YZt1tmSuXI3fqChmIpvJvWWxQKxQdL6xQaVxk
TwitterAgent.sources.Twitter.accessToken=970658778277298177-KaMuzXrzF2GrpCMD2rfIsBXW2VNL230
TwitterAgent.sources.Twitter.<u>accessTokenSec</u>ret=ItEGKbSDsnDupeFZtCXtKBBo0mf1gcC6H56dpRojRuIoe
TwitterAgent.sources.Twitter.keywords=acadgild,hadoop
# Describing/Configuring the sink
TwitterAgent.sources.Twitter.keywords= acadgild,hadoop`
TwitterAgent.sinks.HDFS.channel=MemChannel
TwitterAgent.sinks.HDFS.type=hdfs
TwitterAgent.sinks.HDFS.hdfs.path=hdfs://localhost:8020/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
```

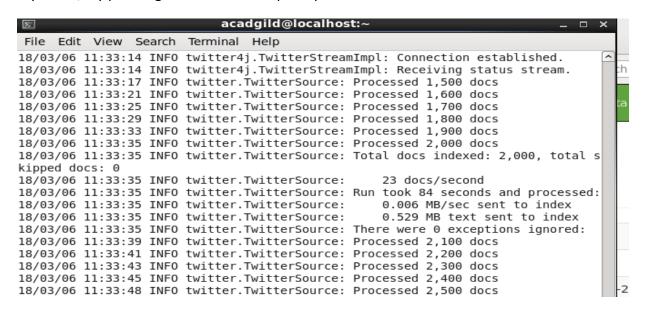
Step9: Checking .bashrc file as shown below,FLUME HOME ans PATH



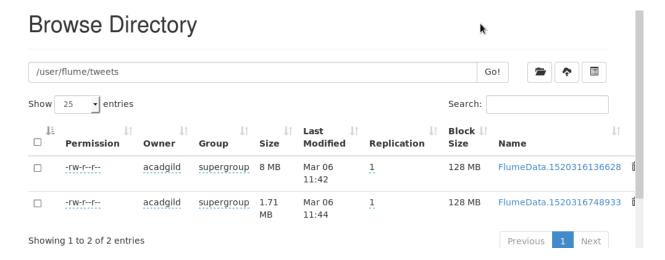
Step10: Using below Flume statement successfully records from twitter are analysis for the given keywords



Step11: The below snapshot shows number of documents are processed to find desired keywords, by pressing Ctrl+c we can stop the process and can view results



Step12: We can see the result is stored in files in the Browse Directory



Step13: The below is the twitter data got feteched inside the files

```
acadgild@localhost:~
                                                                     _ 🗆 X
 File Edit View Search Terminal Help
//twitter.com/download/iphone" rel=<u>"n</u>ofollow">Twitter for iPhone</a><mark>問題</mark>97093274<u>「</u>
a href="http://twitter.cإها المناع العالية على و ينلعجا موللا a href="http://twitter.c
om/download/iphone" rel="nofollow">Twitter for iPhone</a>
{"type":"record","name":"Doc","doc":"adoc","fields":[{"name":"id","type":"string
"},{"name":"user friends count","type":["int","null"]},{"name":"user location","
type":["string","null"]},{"name":"user description","type":["string","null"]},{"
name":"user statuses count","type":["int","null"]},{"name":"user followers count
","type":["Int","null"]},{"name":"user name","type":["string","null"]},{"name":"
user screen name","type":["string","null"]},{"name":"created at","type":["string
","null"]},{"name":"text","type":["string","null"]},{"name":"retweet count","typ
e":["long","null"]},{"name":"retweeted","type":["boolean","null"]},{"name":"in_r
eply_to_user_id","type":["long","null"]},{"name":"source","type":["string","null
"]},{"name":"in reply to status id","type":["long","null"]},{"name":"media url h
ttps","type":["string","null"]},{"name":"expanded url","type":["string","null"]}
철  위너+박인서 ▷▷ 강김송이 ♥ 나의 빛은 김진우 [615] #연정 Girl Group
BNK48 ← ส่วนมากไร้สาระ©®
                    4กชม. [sts] #위 너 만 [ኤ͡xvitaminz91(2018-03-06T13:32:59Z����� C @Nua
RaOr : ก็มีความน่าเอ็นดูอยู่นะ คร๊องตอนเบบี https://t.co/P38ZfZjew5 間側斜a href="http://tw|=
itter.com" rel="nofollow">Twitter Web Client</a>
lrkw1VMAIoA10.jpg|https://twitter.com/NuaRaOr /status/970925487563288576/photo/1
$970932743071657984♥% Toy Rabbits Records ♥【運営公式】みんな嬉しい!楽しい!美味
                        conf > "empltyfile" selected (0 bytes)
```

These are all steps we need to follow to analysis the realtime twitter data.