BIG DATA HADOOP AND SPARK DEVLOPMENT ASSIGNMENT 12

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BIG DATA HADOOPAND SPARK DEVELOPMENT

1. Introduction

In this assignment, the given tasks are performed and Output of the tasks are recorded in the form of Screenshots.

2. Objective

This Assignment consolidates the deeper understanding of the Session – 12 Introduction to Oozie and Flume

3. Prerequisite

To stream data to our database from twitter we should have the following pre-requisites.

- Twitter account
- Hadoop cluster

4. Problem Statement

• Task 1

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

5. Expected Output

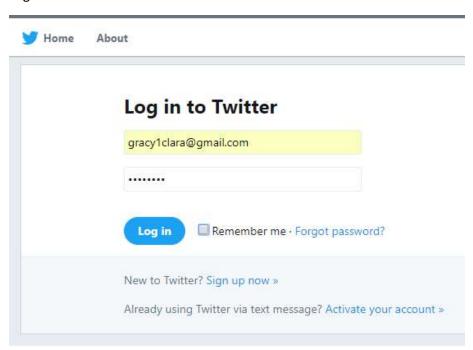
• Task 1

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

Below are the steps to be followed to create a Flume agent to stream Twitter data into HDFS: -

- 1. Login to Twitter account.
- 2. Create a new app in this url https://apps.twitter.com/app
- 3. Accept the terms and conditions and proceed further.
- 4. From "Keys and Access Token" tab get the Consumer Key, Consumer Secret, Access Key and Access Secret and hit on "Create my access token".
- 5. Now update the keys and access tokens attained in Step4 in the configuration file as mentioned in the Screen shot.

Login to the twitter account

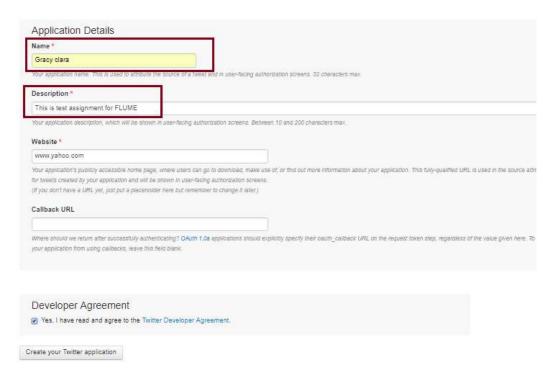


Go to the following link and click the 'create new app' button.

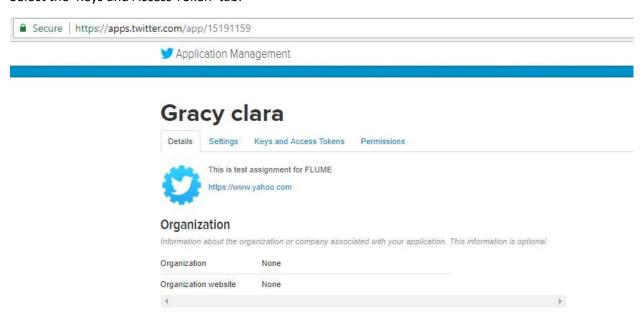
https://apps.twitter.com/app



Create an application

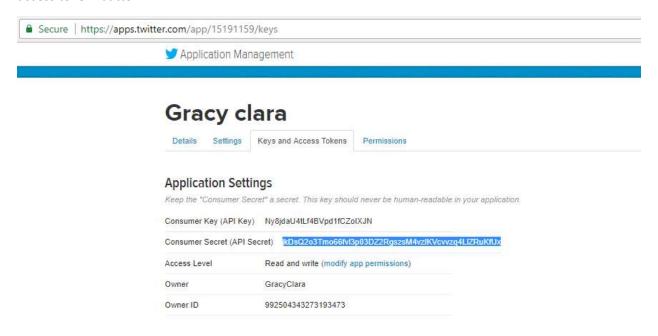


Accept the developer agreement and select the 'create your Twitter application' button' Select the 'Keys and Access Token' tab.

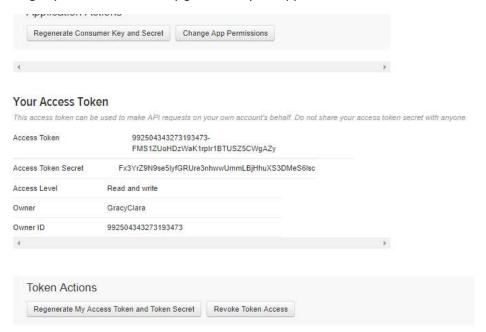


Application Settings

Copy the consumer key and the consumer secret code, scroll down further and select the 'create my access token' button.



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



Copy the Flume configuration code from the below link and paste it in the newly created file in the location,

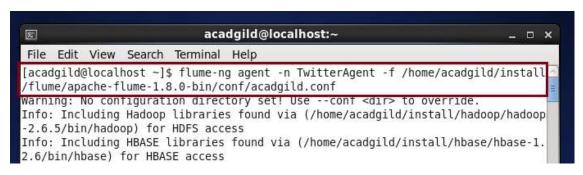
/home/acadgild/apache-flume-1.6.0-bin/conf/acadgild.conf

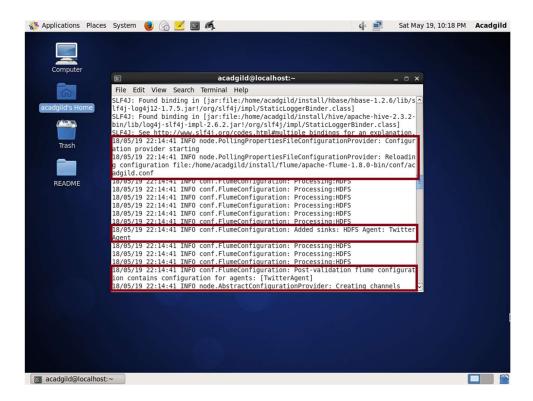
https://drive.google.com/open?id=0B1QaXx7tpw3Sb3U4LW9SWINidkk

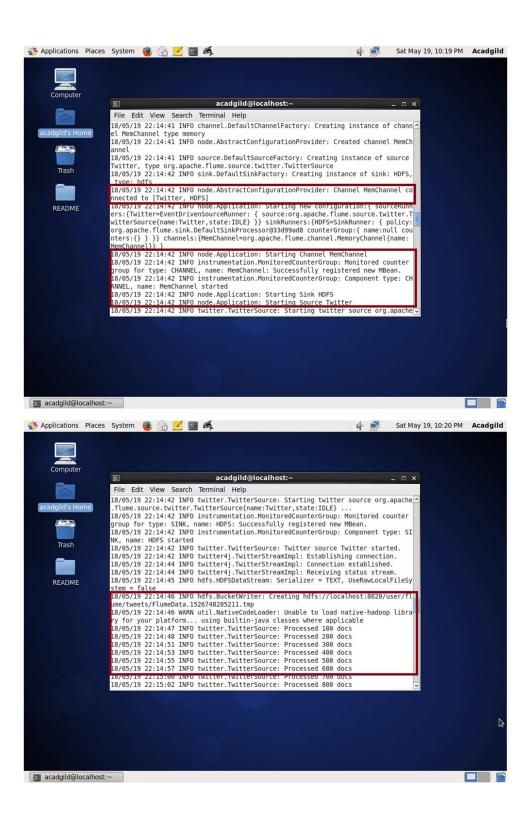
Update the newly created file with twitter **api** keys like consumer key, Consumer token, Access token and the access token secret code and with the **key words**.

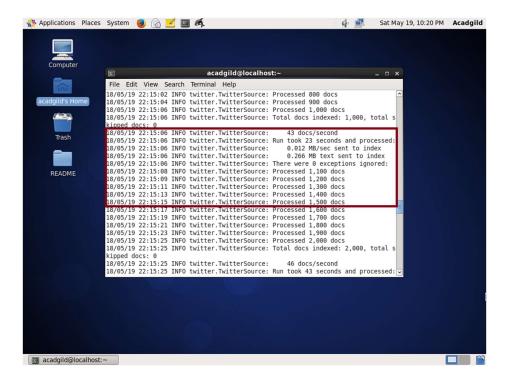
hadoop dfs -mkdir /user/acadgild/hadoop/tweets

flume-ng agent -n TwitterAgent -f /home/acadgild/apache-flume-1.6.0-bin/conf/acadgild.conf

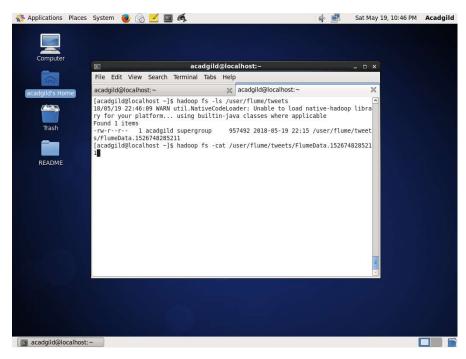








Once, the tweet data started streaming it into the given HDFS path we can use 'Ctrl+c' command to stop the streaming process.



To check the contents of the tweet data we can use the following command:

hadoop fs -cat /user/acadgild/hadoop/tweets/FlumeData.1526748285211

