1. **// Create a Twitter App**

// <https://developer.twitter.com/en/portal/projects-and-apps>

Click on Overview

Scroll down the page

Click on “+Create App’ button and create an App

App name:

// In the next step: App Keys & Tokens will be displayed

Note down the API Key and API secret key

// Then click on the newly created app, in the left Panel

//Next to settings button, click on Keys and tokens

//Click on Access Token and Secret = ‘Generate’

Note down the Access Token and secret key

//Change App Permission

Click on App

Settings > App permissions

// Need to regenerate the API and Access Tokens and secret keys if initially the app is created read only.

// Need to add the API and Access tokens keys and secret keys in the code

In IntelliJ:

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Code1:

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import twitter4j.TwitterFactory

import twitter4j.auth.AccessToken

import twitter4j.Query

object TwitterSpark1 extends App {

val twitter = new TwitterFactory().getInstance()

// Authorising with your Twitter Application credentials

twitter.setOAuthConsumer("4j1vZyNtJ1xBwjgP3mFJGTrZX",

"5aGlcIQNGxpmPXp50zc8EYVUvDk0Id8aPGG71nRF6DnJIL26ta")

twitter.setOAuthAccessToken(new AccessToken(

"914392218365919232-1VxlGCh2Q3PkjlmptLEEZkjNArbQkxp",

"nSEp0odDxhYiM2pyICLzx6fyFOkE1sfGfBh31XDK1TgsJ"))

//Posting a Tweet

twitter.updateStatus("Hello , This is a sample tweet")

//Querying the Twitter

val query = new Query("I attempt to alert Members to 10 big trends a year. More importantly my goal is to help members understand process of market speculation + challenges to overcome to be successful.");

val result = twitter.search(query)

println("Tweetes Found" + result.getTweets.size)

// Capturing the Tweets from your timeline

val statuses = twitter.getHomeTimeline

}

//Querying the Twitter

val query = new Query("Thanks to the Bipartisan Infrastructure Law, we’re going to start replacing 100% of the lead pipes and water lines that go into homes and schools in this country. Every American, every child, should be able to turn on a faucet and drink water that’s clean by President Biden, United States government official.");

val result = twitter.search(query)

println("Tweetes Found" + result.getTweets.size)

//Querying the Twitter

val query = new Query("In our movie of investing life Pre interval : acquire more units After interval : NAV will do the work of hero");

val result = twitter.search(query)

println("Tweetes Found" + result.getTweets.s

Code2:

Build.sbt:

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name := "TwitterSparkStreaming"

version := "0.1"

scalaVersion := "2.11.12"

// https://mvnrepository.com/artifact/org.apache.spark/spark-streaming-twitter

libraryDependencies += "org.apache.spark" %% "spark-streaming-twitter" % "1.6.3"

// https://mvnrepository.com/artifact/org.apache.spark/spark-core

libraryDependencies += "org.apache.spark" %% "spark-core" % "1.6.3"

// https://mvnrepository.com/artifact/org.apache.spark/spark-sql

libraryDependencies += "org.apache.spark" %% "spark-sql" % "1.6.3"

// https://mvnrepository.com/artifact/org.apache.spark/spark-mllib

libraryDependencies += "org.apache.spark" %% "spark-mllib" % "1.6.3"

// https://mvnrepository.com/artifact/org.apache.spark/spark-streaming

libraryDependencies += "org.apache.spark" %% "spark-streaming" % "1.6.3"

libraryDependencies += "com.typesafe" % "config" % "1.3.0"

libraryDependencies += "org.twitter4j" % "twitter4j-core" % "3.0.3"

libraryDependencies += "org.twitter4j" % "twitter4j-stream" % "3.0.3"

**HDP/Ubuntu:**

import org.apache.log4j.{Level, Logger}

import org.apache.spark.SparkConf

import org.apache.spark.streaming.twitter.TwitterUtils

import org.apache.spark.streaming.{Seconds, StreamingContext}

import twitter4j.TwitterFactory

import twitter4j.conf.ConfigurationBuilder

object TwitterSpark2 {

def main(args : Array[String]) {

val sparkConf = new SparkConf().setAppName("TwitterSpark2").setMaster("local[\*]")

val ssc = new StreamingContext(sparkConf, Seconds(10))

println(ssc.getState())

if (!Logger.getRootLogger.getAllAppenders.hasMoreElements) {

Logger.getRootLogger.setLevel(Level.WARN)

}

// (1) config work to create a twitter object

val cb = new ConfigurationBuilder()

cb.setDebugEnabled(true)

.setOAuthConsumerKey("4j1vZyNtJ1xBwjgP3mFJGTrZX")

.setOAuthConsumerSecret("5aGlcIQNGxpmPXp50zc8EYVUvDk0Id8aPGG71nRF6DnJIL26ta")

.setOAuthAccessToken("914392218365919232-1VxlGCh2Q3PkjlmptLEEZkjNArbQkxp")

.setOAuthAccessTokenSecret("nSEp0odDxhYiM2pyICLzx6fyFOkE1sfGfBh31XDK1TgsJ")

val tf = new TwitterFactory(cb.build())

val twitter = tf.getInstance().getAuthorization()

println(twitter)

val stream = TwitterUtils.createStream(ssc, Some(twitter))

stream.print()

ssc.start()

ssc.awaitTerminationOrTimeout(10000)

ssc.stop()

}

}

**References**:

Code1:  
<https://medium.com/knoldus/communicating-with-twitter-via-twitter4j-using-scala-9e8910ad66b0>

Code2:

<https://stackoverflow.com/questions/64580239/error-while-writing-a-simple-twitter-streaming-program-in-scala-spark-too-many>

<https://www.baeldung.com/twitter4j#:~:text=Twitter4J%20is%20an%20open%20source,Send%20and%20receive%20direct%20messages>

https://lamastex.github.io/scalable-data-science/sds/2/x/db/027\_TweetCollectorTrackAndFollow.html

Metrics:

https://unmetric.com/brands/walmart

https://econsultancy.com/how-walmart-uses-pinterest-facebook-twitter-and-google/