```
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      import org.apache.spark.streaming._
      import org.apache.spark.streaming.twitter._
      import org.apache.spark.storage.StorageLevel
                    scala io Source
    handadiz contined white work was the positive of the contined with the contined with
                                  ache.log4j.Logger
      import org.apache.log4j.Level
7 Amprins and Ocess. string seq To Process
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                                                                                                                                                                                            default -
    import_org.apache.spark.streaming._
    import org.apache.spark.streaming.twitter._
    import org.apache.spark.storage.StorageLevel
    import scala.io.Source
    import scala.collection.mutable.HashMap
    import java.io.File
    import org.apache.log4j.Logger
    import org.apache.log4j.Level
    import sys.process.stringSeqToProcess
    Took 24 sec. Last updated by anonymous at January 26 2017, 8:02:25 PM.
                                                                                                                                                               FINISHED ▷ 💥 🗉 🅸
     /** Configures the Oauth Credentials for accessing Twitter */
      def configureTwitterCredentials(apiKey: String, apiSecret: String, accessToken: String, access
          val configs = new HashMap[String, String] ++= Seq(
               apiKey" -> apiKey, "apiSecret" -> apiSecret, "accessToken" -> accessToken, "accessTokenSe
          println("Configuring Twitter OAuth")
          configs.foreach{ case(key, value) =>
              if (value.trim.isEmpty) {
                  throw new Exception("Error setting authentication - value for " + key + " not set")
              val fullKey = "twitter4j.oauth." + key.replace("api", "consumer")
              System.setProperty(fullKey, value.trim)
              println("\tProperty " + fullKey + " set as [" + value.trim + "]")
          }
          println()
    configureTwitterCredentials: (apiKey: String, apiSecret: String, accessToken: String, accessTo
    kenSecret: String)Unit
    Took 3 sec. Last updated by anonymous at January 26 2017, 8:02:31 PM.
                                                                                                                                                               FINISHED ▷ 光 圓 贷
     // Configure Twitter credentials
      val apiKey = "bA2rMrmjxqdqI5CbwGEojAchA"
      val apiSecret = "K1LXvQ3NSnyRYx7li2d96plRoMjYeyutu4uInUGzvcMLUrNAJV"
      val accessToken = "823235947311595520-sIh2tqK2yIMmIz7K9hfu6R6zacoDmAl"
      val accessTokenSecret = "rs4CPRUTwh0w25omXGvxnzSneE8emSbFnFoo0htdAdGig"
      configureTwitterCredentials(apiKey, apiSecret, accessToken, accessTokenSecret)
```

```
apiKey: String = bA2rMrmjxgdqI5CbwGEojAchA
apiSecret: String = KlLXvQ3NSnyRYx7li2d96plRoMjYeyutu4uInUGzvcMLUrNAJV
accessToken: String = 823235947311595520-sIh2tqK2yIMmIz7K9hfu6R6zacoDmAl
accessTokenSecret: String = rs4CPRUTwhOw25omXGvxnzSneE8emSbFnFoo0htdAdGig
Configuring Twitter OAuth
Property twitter4j.oauth.consumerKey set as [bA2rMrmjxgdqI5CbwGEojAchA]
Property twitter4j.oauth.accessToken set as [823235947311595520-sIh2tqK2yIMmIz7K9hfu6R
6zacoDmAl]
Property twitter4j.oauth.consumerSecret set as [KlLXvQ3NSnyRYx7li2d96plRoMjYeyutu4uInU
GzvcMLUrNAJV]
Property twitter4j.oauth.accessTokenSecret set as [rs4CPRUTwhOw25omXGvxnzSneE8emSbFnFo
o0htdAdGig]

setZeppelinous at January 26 2017, 8:02:44 PM.
```

ZAnh Mache. spark, stee aning. thi ther. _ 1 **②** val ssc = new StreamingContext(sc, Seconds(2)) val tweets = TwitterUtils.createStream(ssc, None) val twt = tweets.window(Seconds(60)) case class Tweet(createdAt:Long, text:String) twt.map(status=> Tweet(status.getCreatedAt().getTime()/1000, status.getText())).foreachRDD(rdd=> // Below line works only in spark 1.3.0. // For spark 1.1.x and spark 1.2.x, // use rdd.registerTempTable("tweets") instead. rdd.toDF().registerTempTable("tweets") twt.print ssc.start() 1 Time: 1485478994000 ms _____ Time: 1485478996000 ms _____ StatusJSONImpl{createdAt=Thu Jan 26 20:03:12 EST 2017, id=824784791274938368, text='Trump is f amiliar with all of them https://t.co/KXdrDMyAPw', source='Twitter for iPhone', isTruncated=false, inReplyToStatusId=-1, inR eplyToUserId=-1, isFavorited=false, isRetweeted=false, favoriteCount=0, inReplyToScreenName='n ull', geoLocation=null, place=null, retweetCount=0, isPossiblySensitive=false, lang='en', cont ributorsIDs=[], retweetedStatus=null, userMentionEntities=[], urlEntities=[], hashtagEntities= [], mediaEntities=[MediaEntityJSONImpl{id=824784782609440768, url=https://t.co/KXdrDMyAPw, med iaURL=http://pbs.twimg.com/media/C3I5Y8-VYAANuWh.jpg, mediaURLHttps=https://pbs.twimg.com/medi a/C3I5Y8-VYAANuWh.jpg, expandedURL=https://twitter.com/JennaGLit/status/824784791274938368/pho to/1, displayURL='pic.twitter.com/KXdrDMyAPw', sizes={0=Size{width=150, height=150, resize=10 1}, 1=Size{width=481, height=680, resize=100}, 2=Size{width=495, height=700, resize=100}, 3=Si 70/wid+h_105 haight_700 recize_100ll tyme_nhotoll symbol Entities_Fl currentlicerPatwee+Td_ Took 6 sec. Last updated by anonymous at January 26 2017, 8:03:13 PM.

%sql select * from tweets where text like '%trump%' limit 10

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createdAt text

1,485,479,014 RT @mcleod: No one should be over it https://t.co/GepmBk4VUk @potus @realDonaldTru

Took 1 sec. Last updated by anonymous at January 26 2017, 8:04:05 PM.

createdAt

1,485,479,016

1,485,479,017

1,485,479,018

1,485,479,019

1,485,479,020

1,485,479,021

1,485,479,022

1,485,479,023

1.485.479.024

Took 4 sec. Last updated by anonymous at January 26 2017, 8:04:43 PM.

```
def sentiment(s:String) : String = {
	val positive = Array("like", "love", "good", "great", "happy", "cool", "the", "one", "that val negative = Array("hate", "bad", "stupid", "is")
	var st = 0;
	val words = s.split(" ")
```

```
positive.foreach(p =>
         words.foreach(w =>
              if(p==w) st = st+1
         )
     )
     negative.foreach(p=>
         words.foreach(w=>
              if(p==w) st = st-1
         )
     if(st>0)
         "positivie"
     else if(st<0)
         "negative"
     else
         "neutral"
 }
// Below line works only in spark 1.3.0.
 // For spark 1.1.x and spark 1.2.x,
// use sqlc.registerFunction("sentiment", sentiment _) instead.
sentiment: (s: String)String
res13: org.apache.spark.sql.expressions.UserDefinedFunction = UserDefinedFunction(<function1>,
StringType,Some(List(StringType)))
Took 2 sec. Last updated by anonymous at January 26 2017, 8:05:28 PM.
```

Took 3 sec. Last updated by anonymous at January 26 2017, 8:05:51 PM.

READY ▷ ⑬ ♡

3

neutral