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```
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
```

```
import org.apache.spark.streaming._
import org.apache.spark.streaming.twitter._
import org.apache.spark.storage.StorageLevel
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import sys.process.StringSeqToProcess
```

Took 23 sec. Last updated by anonymous at January 26 2017, 7:56:27 PM.

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```
/** Configures the Oauth Credentials for accessing Twitter */
def configureTwitterCredentials(apiKey: String, apiSecret: String, accessToken: String, accessTo
  val configs = new HashMap[String, String] ++= Seq(
    apiKey -> apiKey, apiSecret -> apiSecret, "accessToken" -> accessToken, "accessTokenSecret" -> accessTokenSecret)
  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, accessTokenSecret: String)Unit
```

Took 3 sec. Last updated by anonymous at January 26 2017, 7:32:46 AM.

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```
// Configure Twitter credentials
val apiKey = "ANhILDStSOVTkKDMvRuQw74mk"
val apiSecret = "4sk8qrb10BEVESUmKAEdL6SC715tR8alqwUI7UjgG4z77eR5Zv"
val accessToken = "407457723-ba6fevUN0to1wywGyqmKxhwb50AFX8PW0aLSXex2p"
val accessTokenSecret = "1TMHrUSWkGY2pWnGsQ3DKq0fqUca1kNzAa6MfBLKt6fPCD"
configureTwitterCredentials(apiKey, apiSecret, accessToken, accessTokenSecret)
```

```
apiKey: String = ANhILDStSOVTkKDMvRuQw74mk
apiSecret: String = 4sk8qrb10BEVESUmKAEcdL6SC715tR8alqwUI7UjgG4z77eR5Zv
accessToken: String = 407457723-ba6fevUN0to1wywGyqmKxhwb50AFX8PW0aLSXex2p
accessTokenSecret: String = 1TMHrUSWkGY2pWnGsQ3DKqOfqUca1kNzAa6MfBLKt6fPCD
Configuring Twitter OAuth
    Property twitter4j.oauth.consumerKey set as [ANhILDStSOVTkKDMvRuQw74mk]
    Property twitter4j.oauth.accessToken set as [407457723-ba6fevUN0to1wywGyqmKxhwb50AFX8PW0aLSXex2p]
    Property twitter4j.oauth.consumerSecret set as [4sk8qrb10BEVESUmKAEcdL6SC715tR8alqwUI7UjgG4z77eR5Zv]
    Property twitter4j.oauth.accessTokenSecret set as [1TMHrUSWkGY2pWnGsQ3DKqOfqUca1kNzAa6MfBLKt6fPCD]
```

Took 2 sec. Last updated by anonymous at January 26 2017, 7:34:27 AM.

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```
import org.apache.spark.streaming.twitter._
val ssc = new StreamingContext(sc, Seconds(2))
val tweets = TwitterUtils.createStream(ssc, None)
val twt = tweets.window(Seconds(60))

import org.apache.spark.streaming.twitter._
ssc: org.apache.spark.streaming.StreamingContext = org.apache.spark.streaming.StreamingContext@6086a55b
tweets: org.apache.spark.streaming.dstream.ReceiverInputDStream[twitter4j.Status] = org.apache.spark.streaming.twitter.TwitterInputDStream@60100489
twt: org.apache.spark.streaming.dstream.DStream[twitter4j.Status] = org.apache.spark.streaming.dstream.WindowedDStream@2c97644a
```

Took 3 sec. Last updated by anonymous at January 26 2017, 7:34:54 AM.

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```
val ssc = new StreamingContext(sc, Seconds(2))
val tweets = TwitterUtils.createStream(ssc, None)
val twt = tweets.window(Seconds(10))
```

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```
//twt.print
```

```
val sqlContext= new org.apache.spark.sql.SQLContext(sc)
import sqlContext.implicits._

case class Tweet(createdAt:Long, text:String)

val tweet = twt.map(status=>
    Tweet(status.getCreatedAt().getTime()/1000, status.getText())
)

tweet.foreachRDD(rdd=>rdd.toDF.registerTempTable("tweets"))
ssc.start()
//ssc.stop()
```

```
ssc: org.apache.spark.streaming.StreamingContext = org.apache.spark.streaming.StreamingContext
@189efc08
tweets: org.apache.spark.streaming.dstream.ReceiverInputDStream[twitter4j.Status] = org.apach
e.spark.streaming.twitter.TwitterInputDStream@a7313c2
tw: org.apache.spark.streaming.dstream.DStream[twitter4j.Status] = org.apache.spark.streamin
g.dstream.WindowedDStream@13ace618
warning: there was one deprecation warning; re-run with -deprecation for details
sqlContext: org.apache.spark.sql.SQLContext = org.apache.spark.sql.SQLContext@7df01f99
import sqlContext.implicits._
defined class Tweet
tweet: org.apache.spark.streaming.dstream.DStream[Tweet] = org.apache.spark.streaming.dstream.
MappedDStream@b5fef68
warning: there was one deprecation warning; re-run with -deprecation for details
```

Took 9 sec. Last updated by anonymous at January 26 2017, 7:57:12 PM.

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

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Took 1 sec. Last updated by anonymous at January 26 2017, 7:57:19 PM.

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