New Data Lake/Streaming/Tutorial ...

OEHCS Tutorial 1: Working with OEHCS and Spark Streaming

FINISHED

This tutorial was built for BDCS-CE version 17.4.1 and OEHCS 0.10.2 as part of the New Data Lake User Journey: here (https://github.com/oracle/learning-library/tree/master/workshops/journey2-new-data-lake). Questions and feedback about the tutorial: david.bayard@oracle.com (mailto:david.bayard@oracle.com)

Please ensure that you have run the "Citi Bike Introduction and Setup" tutorial first. That tutorial setups the environment needed by this tutorial.

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As a reminder, the documentation for BDCS-CE can be found here (https://docs.oracle.com/cloud/latest/big-data-compute-cloud/index.html)

Please run these paragraphs one at a time. It will not work if you try to run the entire note all at once.

Took 0 sec. Last updated by anonymous at November 16 2017, 3:15:16 PM.

About OEHCS (Oracle Event Hub Cloud Service)

READY

Oracle Event Hub Cloud Service combines the open source technology Apache Kafka with unique innovations from Oracle to deliver a complete platform for working with streaming data.

The Oracle Event Hub Cloud Service is a managed Platform as a Service (PaaS) cloud-based offering that provides a highly available and scalable messaging platform for loading and analyzing streaming data. You can:

- Spin up multiple clusters and create topics in seconds, on demand, and then use it.
- Scale Out or Scale In clusters or Add/Remove partitions to elastically react to varying demands of your streaming data.
- Choose different cluster configurations depending on your needs.

Use open REST APIs and CLIs to manage, use, and extend the service.

Documentation for OEHCS can be found: here (http://docs.oracle.com/cloud/latest/event-hub-cloud/index.html). General info about Apache Kafka can be found: here (https://kafka.apache.org/).

About Spark Streaming

READY

The integration between OEHCS and BDCS-CE leverages Spark Streaming to easily process the live streams of data from OEHCS. In particular, while Spark Streaming can work with multiple types of sources, we will be using Spark Streaming's support for Kafka as OEHCS leverages Kafka internally.

Documentation about Spark Streaming can be found: here (http://spark.apache.org/docs/2.1.0/streaming-programming-guide.html). And the integration with Kafka: here (https://spark.apache.org/docs/2.1.0/streaming-programming-guide.html).

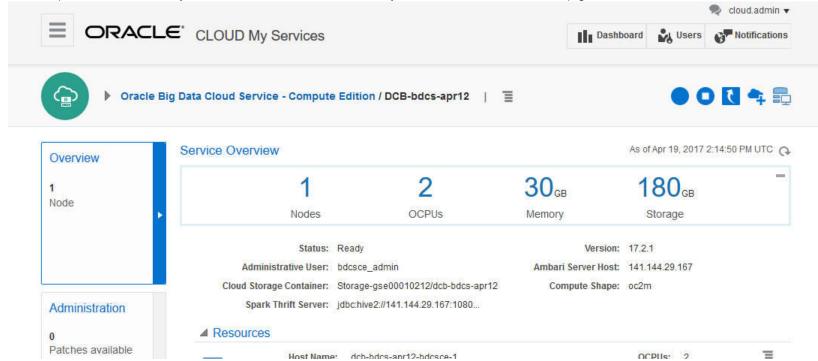
Setting up your OEHCS for Access from BDCSCE

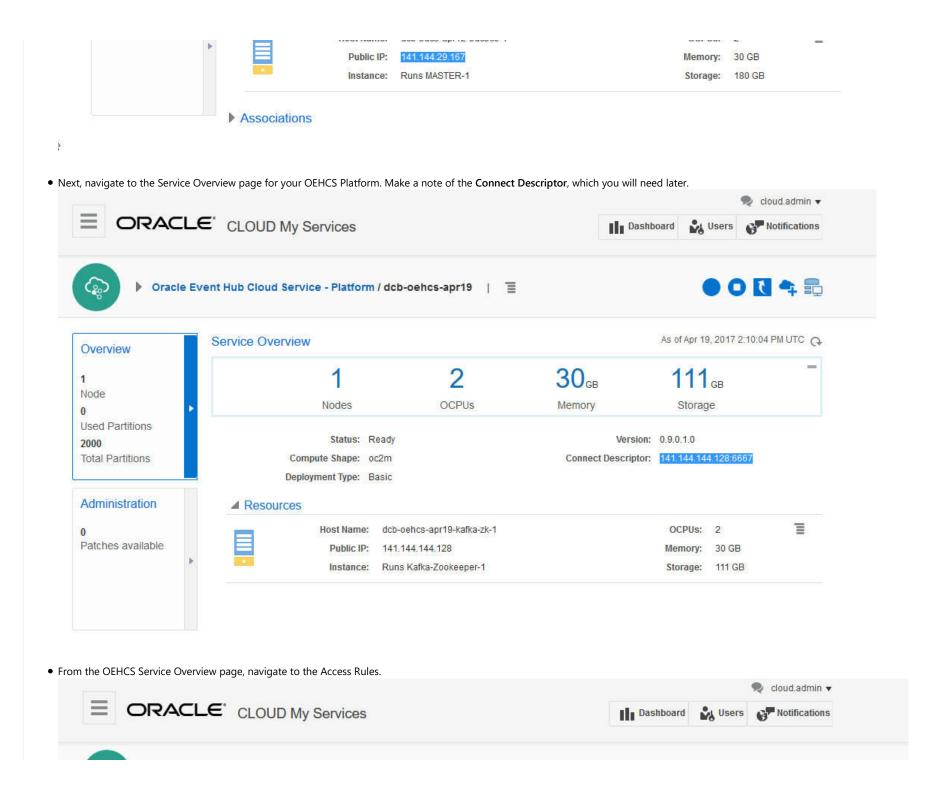
READY

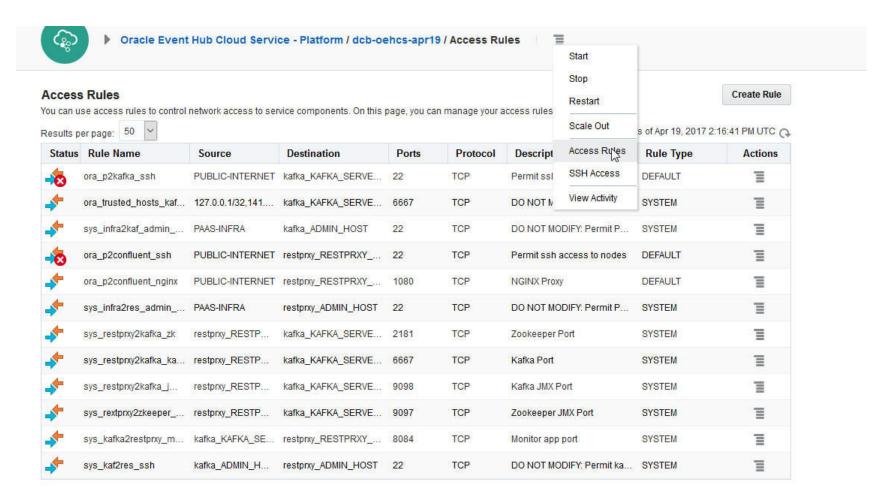
To connect your OEHCS instance with your BDCS-CE instance, we need to make sure the appropriate network access rules are created and enabled. We also need to lookup a few settings for use later.

Follow these steps (hint: you might want to open up a second browser window so that you can refer back to these instructions as you follow the steps):

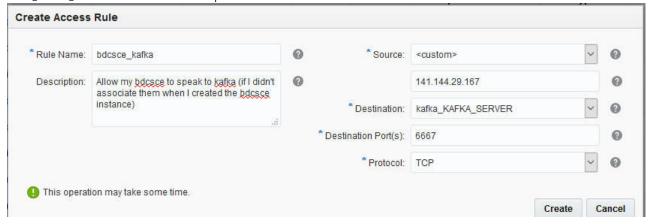
• First, lookup the Public IP address of your BDCS-CE server. You will find it on the My Services - BDCSCE Service Overview page as show here:

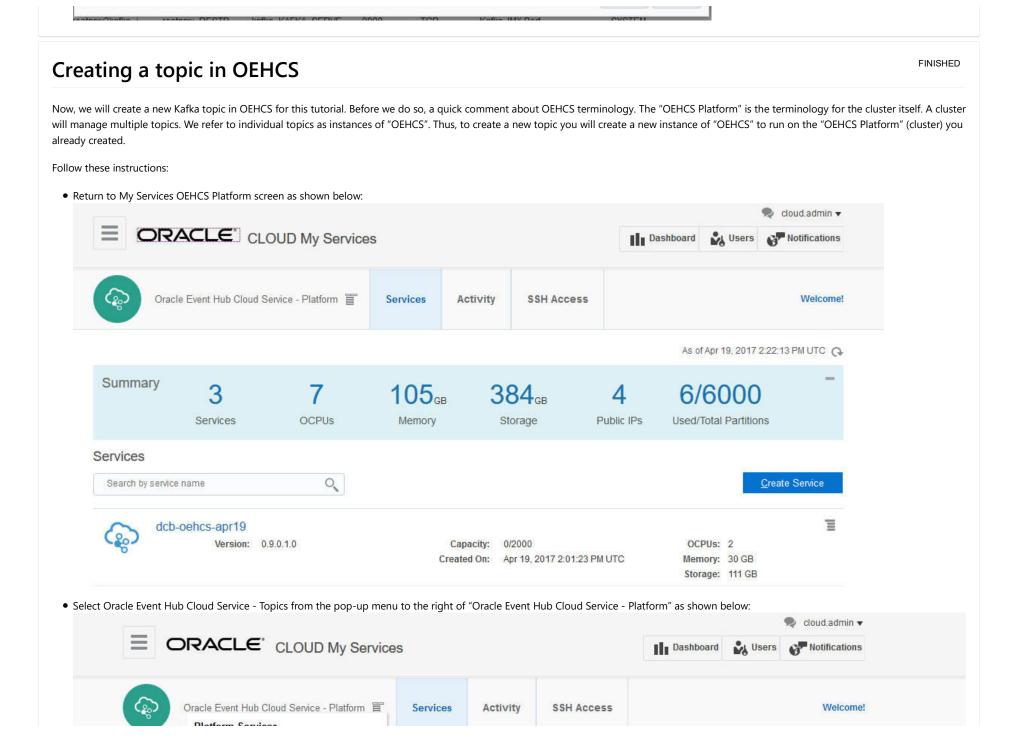


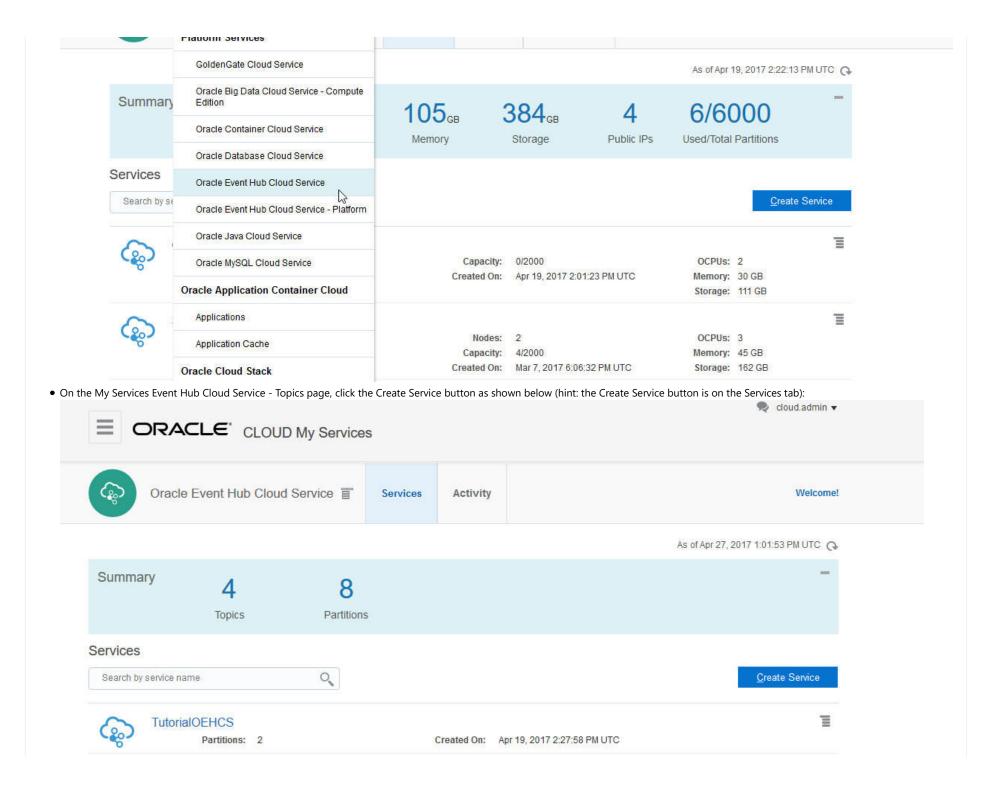


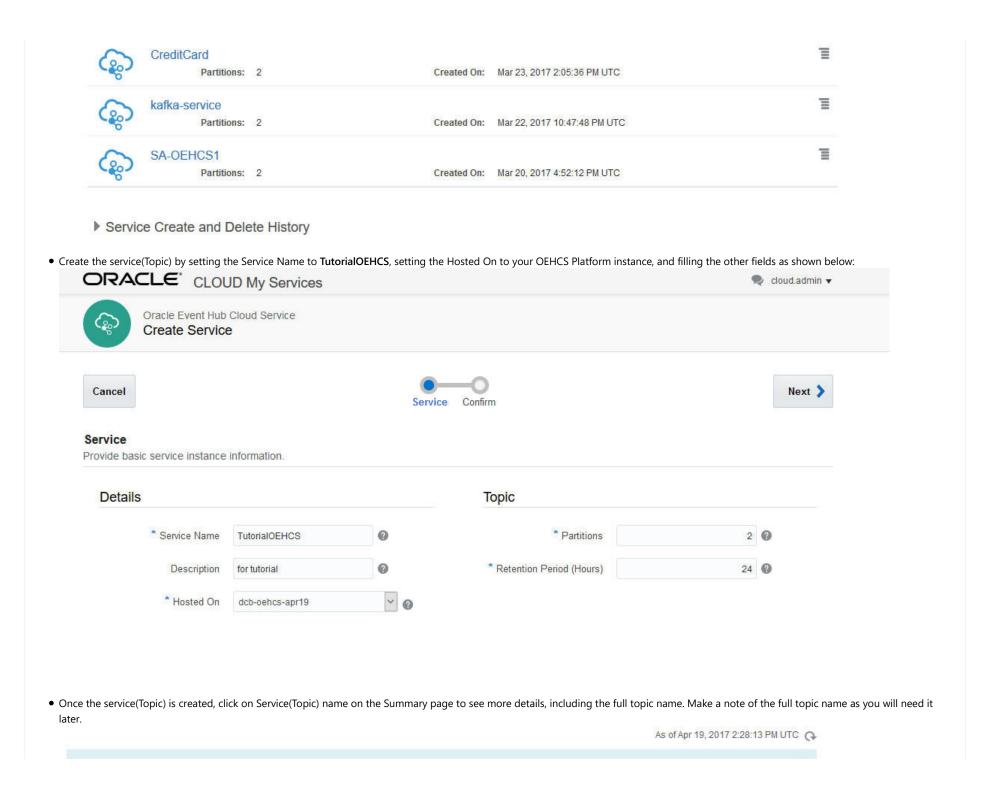


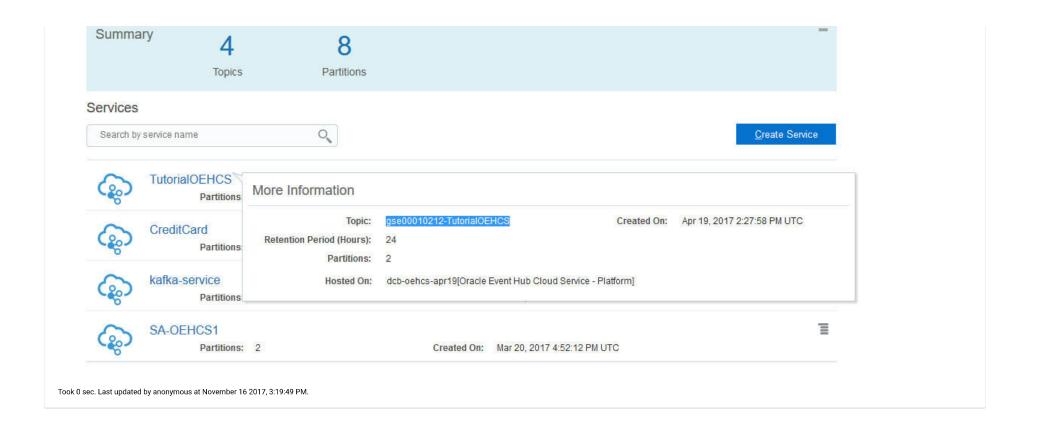
• Create a new rule to allow your BDCS-CE server connect to OEHCS. To do so, choose **Custom** for the source and enter the **Public IP** address of the *BDCS-CE* Server. Set the Destination to the **kafka_KAFKA_SERVER** choice. And enter the port as **6667**. See the screenshot below:











Set OEHCS and Object Store Parameters. Then run this paragraph. **FINISHED** z.angularBind("BIND_ObjectStorage_Container", "journeyC") z.angularBind("BIND_OEHCS_ConnectionDescriptor", z.input("OEHCS_ConnectionDescriptor", "141.144.144.128:6667")) z.angularBind("BIND_OEHCS_Topic", z.input("OEHCS_Topic", "gse00010212-TutorialOEHCS")) //save these for pyspark z.put("BIND_OEHCS_Topic", z.angular("BIND_OEHCS_Topic")) z.put("BIND_OEHCS_ConnectionDescriptor", z.angular("BIND_OEHCS_ConnectionDescriptor")) //save these for shell scala.tools.nsc.io.File("/var/lib/zeppelin/oehcs.sh").writeAll("export ObjectStorage_Container=\""+z.angular("BIND_ObjectStorage_Container")+"\"\n" + "export OEHCS_ConnectionDescriptor=\""+z.angular("BIND_OEHCS_ConnectionDescriptor")+"\"\n" + "export OEHCS_Topic=\""+z.angular("BIND_OEHCS_Topic")+"\"\n" println("done") OEHCS_ConnectionDescriptor OEHCS_Topic 140.86.32.89:6667 gse00002281-TutorialOEHCS done Took 1 sec. Last updated by anonymous at November 16 2017, 3:21:30 PM.

Before you continue

FINISHED

Make sure you have followed the above manual steps to enable access from BDCSCE to OEHCS, create a topic in OEHCS, and run the above paragraph to save your configuration settings.

Took 0 sec. Last updated by anonymous at November 16 2017, 3:22:49 PM.

Citibike Sample Data

READY

This example uses bike ride data from the New York City bike share program (https://www.citibikenyc.com/). The data we use has previously been downloaded in the Tutorial "Citi Bike Introduction and Setup"

We will use a month of bike trip data from December 2016.

Writing a Producer to stream data to OEHCS

READY

This tutorial will use a small python program to stream our bike data to OEHCS. This program will read the bike data and play it back, either in "real-time" or in an accelerated fashion. Our Python program will use the "kafka-python" library, as described here (https://github.com/dpkp/kafka-python).

Our first step is to download the kafka-python library using pip as seen in the next paragraph. Then we will write our python program and save as a file.

```
Shell commands to install Python kafka libraries
                                                                                                                                                                                FINISHED
 %sh
 #do this at least once.
 echo "appdirs==1.4.3
 kafka-python==1.3.3
 packaging==16.8
 pyparsing==2.2.0
 python-dateutil==2.6.0
 six==1.10.0
 " > requirements.txt
 sudo pip install -r requirements.txt
 echo "done"
DEPRECATION: Python 2.6 is no longer supported by the Python core team, please upgrade your Python. A future version of pip will drop support for Python 2.6
Collecting appdirs==1.4.3 (from -r requirements.txt (line 1))
/usr/lib/python2.6/site-packages/pip-9.0.1-py2.6.egg/pip/ vendor/requests/packages/urllib3/util/ssl .py:318: SNIMissingWarning: An HTTPS request has been made, but the SNI (Subject Nam
e Indication) extension to TLS is not available on this platform. This may cause the server to present an incorrect TLS certificate, which can cause validation failures. You can upgrad
e to a newer version of Python to solve this. For more information, see https://urllib3.readthedocs.io/en/latest/security.html#snimissingwarning.
  SNIMissingWarning
/usr/lib/python2.6/site-packages/pip-9.0.1-py2.6.egg/pip/ vendor/requests/packages/urllib3/util/ssl .py:122: InsecurePlatformWarning: A true SSLContext object is not available. This pr
events urllib3 from configuring SSL appropriately and may cause certain SSL connections to fail. You can upgrade to a newer version of Python to solve this. For more information, see h
ttps://urllib3.readthedocs.io/en/latest/security.html#insecureplatformwarning.
 InsecurePlatformWarning
  Downloading appdirs-1.4.3-py2.py3-none-any.whl
Collecting kafka-python==1.3.3 (from -r requirements.txt (line 2))
  Downloading kafka_python-1.3.3-py2.py3-none-any.whl (200kB)
Collecting packaging==16.8 (from -r requirements.txt (line 3))
  Downloading packaging-16.8-py2.py3-none-any.whl
Collecting pyparsing==2.2.0 (from -r requirements.txt (line 4))
  Downloading pyparsing-2.2.0-py2.py3-none-any.whl (56kB)
Collecting python-dateutil==2.6.0 (from -r requirements.txt (line 5))
  Downloading python_dateutil-2.6.0-py2.py3-none-any.whl (194kB)
Collecting six==1.10.0 (from -r requirements.txt (line 6))
  Downloading six-1.10.0-py2.py3-none-any.whl
Installing collected packages: appdirs, kafka-python, pyparsing, six, packaging, python-dateutil
 Found existing installation: six 1.9.0
    DEPRECATION: Uninstalling a distutils installed project (six) has been deprecated and will be removed in a future version. This is due to the fact that uninstalling a distutils pro
ject will only partially uninstall the project.
    Uninstalling six-1.9.0:
Took 10 sec. Last updated by anonymous at November 16 2017, 3:23:12 PM. (outdated)
```

Shell command to save our Python producer program to a script

FINISHED

```
%sh
. oehcs.sh
echo "
#!/usr/bin/env python
```

```
-rw-r--r-- 1 zeppelin zeppelin 2023 Nov 16 20:23 tutorial_kafka.py done

Took 0 sec. Last updated by anonymous at November 16 2017, 3:23:29 PM. (outdated)
```

Example: Consuming streaming data from OEHCS

READY

Now that we have downloaded data and written our python producer, we are ready for our first example. To run our example, you will need to run 2 things: the python producer script and a Spark Streaming consumer script.

First, we will start with the Spark Streaming script. Run the next paragraph. Scroll down and observe the output, even though it says it is still running. You will notice that it begins to report new information every 5 seconds. After 90 seconds, it will shut itself down.

Before the Spark Streaming code shuts itself down, move to the paragraph that invokes our python producer in a shell interpreter (it is the one right after the spark streaming script). Run this python producer paragraph. At this point, both the producer and the consumer should be running. Observe the output of both.

After sending 10 records, the python producer will quit. After 90 seconds, the Spark Streaming consumer will quit.

Spark Streaming (Scala) Example: Kafka Consumer

FINISHED

```
%spark
import root .kafka.serializer.StringDecoder //http://stackoverflow.com/questions/36397688/sbt-cannot-import-kafka-encoder-decoder-classes
import org.apache.spark.streaming.
import org.apache.spark.streaming.kafka.
 println("Creating new Streaming Context")
 val ssc = new StreamingContext(sc, Seconds(5))
 val topic = z.angular("BIND OEHCS Topic").toString
 println("topic:"+topic)
 val topicsSet = topic.split(",").toSet
 val brokers=z.angular("BIND_OEHCS_ConnectionDescriptor").toString
 println("brokers:"+brokers)
 val kafkaParams = Map[String, String]("metadata.broker.list" -> brokers)
 println("Creating Kafka DStream")
 //https://spark.apache.org/docs/1.6.1/streaming-kafka-integration.html
 val messages = KafkaUtils.createDirectStream[String, String, StringDecoder, StringDecoder](
      ssc, kafkaParams, topicsSet)
```

```
Creating new Streaming Context
topic:gse00002281-TutorialOEHCS
brokers:140.86.32.89:6667
Creating Kafka DStream
Setting up operations on DStream
Starting Streaming Context
Will now sleep for a few minutes, before stopping the StreamingContext. At this point, you should start the producer.
count = 0
count = 1
(first row ,[16669,1981,480,40.76669671,-73.99061728,W 53 St & 10 Ave,1,447,40.76370739,-73.9851615,8 Ave & W 52 St,2016-12-01 06:00:01,2016-12-01 06:03:36,214,Subscriber])
count = 0
count = 3
(first row ,[20578,1964,3141,40.76500525,-73.95818491,1 Ave & E 68 St,1,490,40.751551,-73.993934,8 Ave & W 33 St,2016-12-01 06:00:08,2016-12-01 06:27:10,1622,Subscriber])
count = 2
(first row ,[25077,1992,387,40.71273266,-74.0046073,Centre St & Chambers St,1,507,40.73912601,-73.97973776,E 25 St & 2 Ave,2016-12-01 06:00:13,2016-12-01 06:14:22,848,Subscriber])
count = 1
(first row, [24035,1958,527,40.744023,-73.976056,E 33 St & 2 Ave,1,492,40.75019995,-73.99093085,W 33 St & 7 Ave,2016-12-01 06:00:21,2016-12-01 06:05:54,333,Subscriber])
```

```
count = 0
count = 1
(first row ,[24295,1966,3224,40.73997354103409,-74.00513872504234,W 13 St & Hudson St,1,3161,40.7801839724239,-73.97728532552719,W 76 St & Columbus Ave,2016-12-01 06:00:30,2016-12-01 0
6:25:04,1473,Subscriber])
            ,[21229,1979,518,40.74780373,-73.9734419,E 39 St & 2 Ave,1,468,40.7652654,-73.98192338,Broadway & W 55 St,2016-12-01 06:00:33,2016-12-01 06:14:10,817,Subscriber])
count = 0
count = 0
count = 0
count = 1
(first row ,[27180,1980,337,40.7037992,-74.00838676,0ld Slip & Front St,1,264,40.70706456,-74.00731853, Maiden Ln & Pearl St,2016-12-01 06:00:52,2016-12-01 06:03:04,131, Subscriber])
count = 0
Stopping Active StreamingContext
Took 1 min 40 sec. Last updated by anonymous at November 16 2017, 3:30:35 PM
```

Running the Kafka Producer Shell script

FINISHED

```
0/10 sending: {'Birth Year': '1981', 'Stop Time': '2016-12-01 06:03:36', 'End Station Longitude': '-73.99061728', 'Trip Duration': '214', 'Start Station ID': '447', 'Start Station Lon
gitude': '-73.9851615', 'End Station Latitude': '40.76669671', 'End Station Name': 'W 53 St & 10 Ave', 'Start Time': '2016-12-01 06:00:01', 'Start Station Latitude': '40.76370739', 'En
d Station ID': '480', 'Bike ID': '16669', 'User Type': 'Subscriber', 'Gender': '1', 'Start Station Name': '8 Ave & W 52 St'}
1/10 sending: {'Birth Year': '1964', 'Stop Time': '2016-12-01 06:27:10', 'End Station Longitude': '-73.95818491', 'Trip Duration': '1622', 'Start Station ID': '490', 'Start Station Lo
ngitude': '-73.993934', 'End Station Latitude': '40.76500525', 'End Station Name': '1 Ave & E 68 St', 'Start Time': '2016-12-01 06:00:08', 'Start Station Latitude': '40.751551', 'End S
tation ID': '3141', 'Bike ID': '20578', 'User Type': 'Subscriber', 'Gender': '1', 'Start Station Name': '8 Ave & W 33 St'}
2/10 sending: {'Birth Year': '1958', 'Stop Time': '2016-12-01 06:22:39', 'End Station Longitude': '-73.99009296', 'Trip Duration': '1349', 'Start Station ID': '3236', 'Start Station Longitude': '-73.99009296', 'Trip Duration': '1349', 'Start Station ID': '3236', 'Start Station Longitude': '-73.99009296', 'Trip Duration': '1349', 'Start Station ID': '3236', 'Start Station Longitude': '-73.99009296', 'Trip Duration': '1349', 'Start Station ID': '3236', 'Start Station Longitude': '-73.99009296', 'Trip Duration': '1349', 'Start Station ID': '3236', 'Start Station Longitude': '-73.99009296', 'Trip Duration': '1349', 'Start Station ID': '3236', 'Start Station Longitude': '-73.99009296', 'Trip Duration': '1349', 'Start Station ID': '3236', 'Start Station Longitude': '-73.99009296', 'Trip Duration': '1349', 'Start Station ID': '3236', 'Start Station Longitude': '-73.99009296', 'Trip Duration': '1349', 'Start Station ID': '3236', 'Start Station ID':
ongitude': '-73.99379968643188', 'End Station Latitude': '40.73704984', 'End Station Name': 'E 17 St & Broadway', 'Start Time': '2016-12-01 06:00:10', 'Start Station Latitude': '40.758
98481399634', 'End Station ID': '497', 'Bike ID': '25033', 'User Type': 'Subscriber', 'Gender': '1', 'Start Station Name': 'W 42 St & Dyer Ave'}
3/10 sending: {'Birth Year': '1992', 'Stop Time': '2016-12-01 06:07:59', 'End Station Longitude': '-73.986923', 'Trip Duration': '467', 'Start Station ID': '394', 'Start Station Longi
tude': '-73.97768752', 'End Station Latitude': '40.734232', 'End Station Name': 'E 15 St & 3 Ave', 'Start Time': '2016-12-01 06:00:11', 'Start Station Latitude': '40.72521311', 'End St
ation ID': '297', 'Bike ID': '22604', 'User Type': 'Subscriber', 'Gender': '1', 'Start Station Name': 'E 9 St & Avenue C'}
4/10 sending: {'Birth Year': '1992', 'Stop Time': '2016-12-01 06:14:22', 'End Station Longitude': '-74.0046073', 'Trip Duration': '848', 'Start Station ID': '507', 'Start Station Long
itude': '-73.97973776', 'End Station Latitude': '40.71273266', 'End Station Name': 'Centre St & Chambers St', 'Start Time': '2016-12-01 06:00:13', 'Start Station Latitude': '40.7391260'
1', 'End Station ID': '387', 'Bike ID': '25077', 'User Type': 'Subscriber', 'Gender': '1', 'Start Station Name': 'E 25 St & 2 Ave'}
5/10 sending: {'Birth Year': '1975', 'Stop Time': '2016-12-01 06:05:28', 'End Station Longitude': '-73.98192338', 'Trip Duration': '312', 'Start Station ID': '3233', 'Start Station Lo
ngitude': '-73.97805914282799', 'End Station Latitude': '40.7652654', 'End Station Name': 'Broadway & W 55 St', 'Start Time': '2016-12-01 06:00:16', 'Start Station Latitude': '40.75724
ECTOMATORI | Feed Chiefford TDL: 14001 | IDEL: TDL: 1000001 | Ulica Timel: 100bereibert
Took 52 sec. Last updated by anonymous at November 16 2017, 3:29:55 PM
```

Before you continue

READY

At this point, you have now seen a working example of data being streamed to OEHCS and read by BDCS-CE. The operations that we performed on the incoming data were rather basic—we just counted the incoming rows and printed out the first row of each batch.

Next, we will implement a more complex example.

READY

More complex example: Spark SQL and Writing to Object Store

In this example, we will demonstrate defining a Spark SQL table with our real-time data as well as writing data to the Object Store.

To run the more complex example, you will need to

- run the Spark paragraph below to start the consumer. Note: this consumer will not stop by itself but we provide commands later to stop it when needed.
- run the producer paragraph below to start the producer.
- Observe the output of the consumer and run and re-run the SQL paragraphs to query the realtime_bike_trips table. The consumer is using a window of 30 secods, so you should see different data approximately every 30 seconds as you run the SQL queries.
- run the Spark paragraph further below to stop the running StreamingContext
- check the ObjectStore to confirm that the streaming data was written to it

Streaming Consumer that defines a Spark SQL Table and writes to Object Store

FINISHED

```
%spark
    import _root_.kafka.serializer.StringDecoder //http://stackoverflow.com/questions/36397688/sbt-cannot-import-kafka-encoder-decoder-classes
    import org.apache.spark.streaming._
    import org.apache.spark.streaming.kafka._
    val filebase = "swift://"+z.angular("BIND_ObjectStorage_Container")+".default/citibike/streaming"
    println("Defining a placeholder empty dataframe for our SQL table structure when we don't have any realtime data")
    //use a sample record to capture the column names and types
    val dummyrec="{'Birth Year': '1981', 'Stop Time': '2016-12-01 06:03:36', 'End Station Longitude': '-73.99061728', 'Trip Duration': '214', 'Start Station ID': '447', 'Start Station Lorgitude': '-73.99061728', 'Trip Duration': '214', 'Start Station ID': '447', 'Start Station Lorgitude': '-73.99061728', 'Trip Duration': '214', 'Start Station ID': '447', 'Start Station Lorgitude': '-73.99061728', 'Trip Duration': '214', 'Start Station ID': '447', 'Start Station Lorgitude': '-73.99061728', 'Trip Duration': '214', 'Start Station ID': '447', 'Start Station Lorgitude': '-73.99061728', 'Trip Duration': '214', 'Start Station ID': '447', 'Start Station Lorgitude': '-73.99061728', 'Trip Duration': '214', 'Start Station ID': '447', 'Start Station Lorgitude': '-73.99061728', 'Trip Duration': '214', 'Start Station ID': '447', 'Start S
                  -73.9851615', 'End Station Latitude': '40.76669671', 'End Station Name': 'W 53 St & 10 Ave', 'Start Time': '2016-12-01 06:00:01', 'Start Station Latitude': '40.76370739', 'End Station Name': 'W 53 St & 10 Ave', 'Start Time': '2016-12-01 06:00:01', 'Start Station Latitude': '40.76370739', 'End Station Name': 'W 53 St & 10 Ave', 'Start Time': '2016-12-01 06:00:01', 'Start Station Latitude': '40.76370739', 'End Station Name': 'W 53 St & 10 Ave', 'Start Time': '2016-12-01 06:00:01', 'Start Station Name': 'W 53 St & 10 Ave', 'Start Time': '2016-12-01 06:00:01', 'Start Station Name': 'W 53 St & 10 Ave', 'Start Time': '2016-12-01 06:00:01', 'Start Station Name': 'W 53 St & 10 Ave', 'Start Time': '2016-12-01 06:00:01', 'Start Station Name': 'W 53 St & 10 Ave', 'Start Time': '2016-12-01 06:00:01', 'Start Station Name': 'W 53 St & 10 Ave', 'Start Time': '2016-12-01 06:00:01', 'Start Station Name': 'W 53 St & 10 Ave', 'Start Time': '2016-12-01 06:00:01', 'Start Station Name': 'W 54 Start Station Name': 'W 55 Start S
                   '480', 'Bike ID': '16669', 'User Type': 'Subscriber', 'Gender': '1', 'Start Station Name': '8 Ave & W 52 St'}"
    val dummyRDD = sc.parallelize(dummyrec :: Nil)
    var dummyDf=sqlContext.read.json(dummyRDD)
    //df.printSchema()
    //create a new DF with zero records (but with same column names/types)
    var emptyDF=dummyDf.filter("Gender = 'xxx'")
    //emptyDF.printSchema()
    println("Creating new Streaming Context")
    val ssc = new StreamingContext(sc, Seconds(30))
    val topic = z.angular("BIND_OEHCS_Topic").toString
    println("topic:"+topic)
    val topicsSet = topic.split(",").toSet
    val brokers=z.angular("BIND_OEHCS_ConnectionDescriptor").toString
    println("brokers:"+brokers)
    val kafkaParams = Map[String, String]("metadata.broker.list" -> brokers)
```

Defining a placeholder empty dataframe for our SQL table structure when we don't have any realtime data Creating new Streaming Context topic:gse00002281-TutorialOEHCS

```
brokers:140.86.32.89:6667
Creating Kafka DStream
Setting up operations on DStream
Starting Streaming Context
```

Note: you will need to manually stop this StreamingContext or it will continue forever. To do so, run: StreamingContext.getActive().map(_.stop(false,true))

There is a sample paragraph below that shows you how to do this.

Start of the Consumer done. Go ahead and start the producer if you have not already. With both the Consumer and Producer running, run the Spark SQL queries below and you should see different data every 30 seconds

Took 6 sec. Last updated by anonymous at November 16 2017, 3:32:02 PM. (outdated)

Producer for the more complex example

FINISHED

%sh

#The arguments are datafile TimeSpeedupFactor RecordsToProduce StartDate StartTime

for the more complex example, we are running a timespeedup factor of 10 to push data faster through the system

python ./tutorial_kafka.py citibike/201612-citibike-tripdata.csv 10 300 2016-12-01 06:00:00 2>&1

0/300 sending: {'Birth Year': '1981', 'Stop Time': '2016-12-01 06:03:36', 'End Station Longitude': '-73.99061728', 'Trip Duration': '214', 'Start Station ID': '447', 'Start Station Lo ngitude': '-73.9851615', 'End Station Latitude': '40.76669671', 'End Station Name': 'W 53 St & 10 Ave', 'Start Time': '2016-12-01 06:00:01', 'Start Station Latitude': '40.76370739', 'E nd Station ID': '480', 'Bike ID': '16669', 'User Type': 'Subscriber', 'Gender': '1', 'Start Station Name': '8 Ave & W 52 St'} 1/300 sending: {'Birth Year': '1964', 'Stop Time': '2016-12-01 06:27:10', 'End Station Longitude': '-73.95818491', 'Trip Duration': '1622', 'Start Station ID': '490', 'Start Station L ongitude': '-73.993934', 'End Station Latitude': '40.76500525', 'End Station Name': '1 Ave & E 68 St', 'Start Time': '2016-12-01 06:00:08', 'Start Station Latitude': '40.751551', 'End Station ID': '3141', 'Bike ID': '20578', 'User Type': 'Subscriber', 'Gender': '1', 'Start Station Name': '8 Ave & W 33 St'} 2/300 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62/300 sending: {'Birth Year': '1971', 'Stop Time': '2016-12-01 06:20:23', 'End Station Longitude': '-73.97031366', 'Trip Duration': '791', 'Start Station ID': '477', 'Start Station L
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189/300 sending: {'Birth Year': '1991', 'Stop Time': '2016-12-01 06:18:45', 'End Station Longitude': '-73.986923', 'Trip Duration': '209', 'Start Station ID': '504', 'Start Station Lo
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200/300 sending: {'Birth Year': '1989', 'Stop Time': '2016-12-01 06:30:22', 'End Station Longitude': '-73.976056', 'Trip Duration': '882', 'Start Station ID': '477', 'Start Station Lo
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204/300 sending: {'Birth Year': '1978', 'Stop Time': '2016-12-01 06:20:25', 'End Station Longitude': '-73.99704374', 'Trip Duration': '279', 'Start Station ID': '297', 'Start Station
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205/300 sending: {'Birth Year': '1956', 'Stop Time': '2016-12-01 06:20:10', 'End Station Longitude': '-73.986923', 'Trip Duration': '262', 'Start Station ID': '2003', 'Start Station L
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206/300 sending: {'Birth Year': '1961', 'Stop Time': '2016-12-01 06:27:00', 'End Station Longitude': '-73.97402311', 'Trip Duration': '672', 'Start Station ID': '490', 'Start Station
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208/300 sending: {'Birth Year': '1993', 'Stop Time': '2016-12-01 06:19:47', 'End Station Longitude': '-73.98316936', 'Trip Duration': '227', 'Start Station ID': '477', 'Start Station
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210/300 sending: {'Birth Year': '1971', 'Stop Time': '2016-12-01 06:31:11', 'End Station Longitude': '-73.99086803197861', 'Trip Duration': '889', 'Start Station ID': '477', 'Start St
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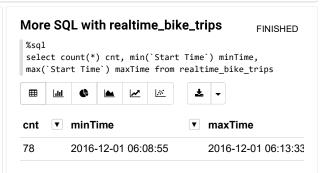
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SQL to guery realtime_bike_trips FINISHED select * from realtime bike trips ~ ... Bike ID V Birth Year V End Station ID V End Station Latitude V End Station Longitude V End Station Name 1972 477 17243 40.75640548 -73.9900262 W 41 St & 8 Ave 25152 1981 3146 40.77573034 -73.9567526 E 81 St & 3 Ave 26996 3140 1 Ave & E 78 St 1958 40.77140426 -73.9535166 20878 1962 3159 40 77492513 -73.98266566 W 67 St & Broadway 22128 1979 328 40.72405549 -74.00965965 Watts St & Greenwich St 26830 1971 2021 40.75929124 -73.98859651 W 45 St & 8 Ave 16273 1991 3436 40.721319 -74.010065 Greenwich St & Hubert § 22753 379 40 749156 -73 9916 W 31 St & 7 Ave 1965 25295 1987 3345 -73.95242929458618 Madison Ave & E 99 St 40.78948541553215 Took 0 sec. Last updated by anonymous at November 16 2017, 3:33:28 PM.



Took 0 sec. Last updated by anonymous at November 16 2017, 3:33:33 PM.

Shell command to list the Object Store contents

%sh

. oehcs.sh

echo Storage Container = \$ObjectStorage_Container

echo "Observe the timestamps of the files. You should see files with today's timestamps added by the more complex streaming example"

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FINISHED

Spark code to stop the running Spark Streaming consumer

FINISHED

```
%spark
{
   import org.apache.spark.streaming._
   println("Stopping any active StreamingContext. May take a minute.")
   StreamingContext.getActive().map(_.stop(false,true))
   println("done")
}
Stopping any active StreamingContext. May take a minute.
done
```

Next Steps

Learn more about:

- Oracle Event Hub Cloud Service: here (http://docs.oracle.com/cloud/latest/event-hub-cloud/index.html)
- Spark Streaming: here (http://spark.apache.org/docs/2.1.0/streaming-programming-guide.html)
- Apache Kafka: here (https://kafka.apache.org/)

Took 2 min 18 sec. Last updated by anonymous at November 16 2017, 3:37:11 PM.

• Spark Streaming and Kafka Integration: here (https://spark.apache.org/docs/2.1.0/streaming-kafka-integration.html)

Run the OEHCS Demonstration Citi Bike Live Map with OEHCS and Spark Streaming

Change Log

November 16, 2017 - Updated for 17.4.1
September 12, 2017 - Confirmed it works with BDCS-CE 17.3.5
August 13, 2017 - Confirmed it works with BDCSCE 17.3.3-20
August 11, 2017 - Journey v2. Confirmed it works with Spark 2.1
July 28, 2017 - Updated for BDCSCE 17.3.1-20
Took 0 sec. Last updated by anonymous at November 16 2017, 3:29:33 PM.

%md READY