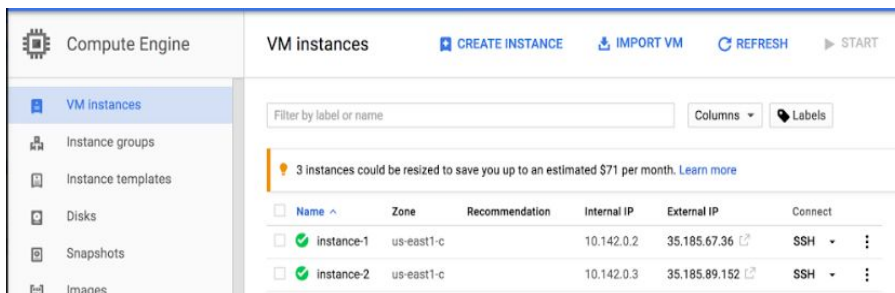


Team 6 - TWITTER DATA ANALYTICS IMPLEMENTATION ON GOOGLE CLOUD

Screenshots of each step

1. Creation of Google Instances :



2. Apache Flume Configuration file

```
#### TwitterAgent for collecting Twitter data to Hadoop HDFS ####

TwitterAgent.sources = Twitter
TwitterAgent.channels = FileChannel
TwitterAgent.sinks = HDFS

#TwitterAgent.sources.Twitter.type = com.cloudera.flume.source.TwitterSource
TwitterAgent.sources.Twitter.type = org.apache.flume.source.twitter.TwitterSource
TwitterAgent.sources.Twitter.channels = FileChannel

TwitterAgent.sources.Twitter.consumerKey = SqWu0uWAtrg6p6ROqAptbJlva
TwitterAgent.sources.Twitter.consumerSecret = bPtncFTPBUwvzbLnW5yv0VmtMMPkcst4r8HrAkZwxG5uuB1xo
TwitterAgent.sources.Twitter.accessToken = 2235585415-RLCVufXIDhzcXsAe4DknXnmoQV7ihIXpvB5Tevk
TwitterAgent.sources.Twitter.accessTokenSecret = XFbV51FS0BtkBXe7JOA2qe8Sd8kirNTkur9hwb5JZdqCy

TwitterAgent.sources.Twitter.maxBatchSize = 50000
TwitterAgent.sources.Twitter.maxBatchDurationMillis = 100000

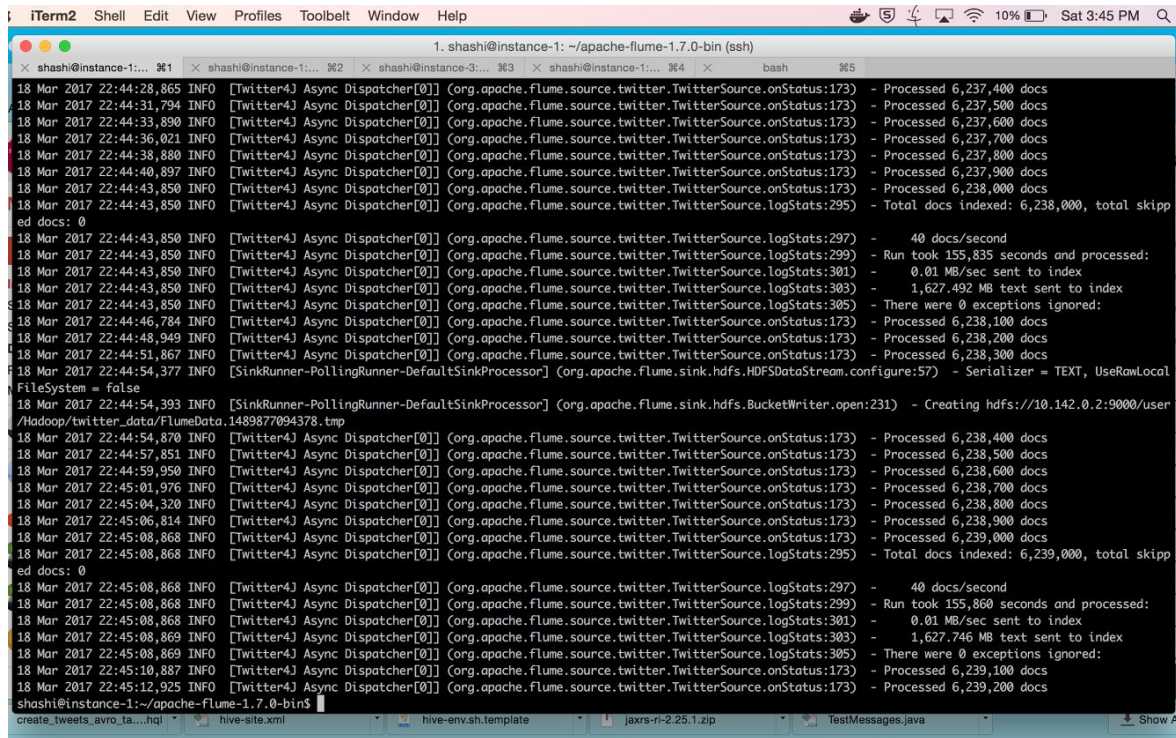
#TwitterAgent.sources.Twitter.keywords = Apache, Hadoop, Mapreduce, hadooptutorial, Hive, Hbase, MySql

TwitterAgent.sinks.HDFS.channel = FileChannel
TwitterAgent.sinks.HDFS.type = hdfs
TwitterAgent.sinks.HDFS.hdfs.path = hdfs://10.142.0.2:9000/user/Hadoop/twitter_data
TwitterAgent.sinks.HDFS.hdfs.fileType = DataStream
TwitterAgent.sinks.HDFS.hdfs.writeFormat = Text
TwitterAgent.sinks.HDFS.hdfs.batchSize = 200000
TwitterAgent.sinks.HDFS.hdfs.rollSize = 0
TwitterAgent.sinks.HDFS.hdfs.rollCount = 2000000

TwitterAgent.channels.FileChannel.type = file
TwitterAgent.channels.FileChannel.checkpointDir = /home/shashi/apache-flume-1.7.0-bin/var/log/flume/checkpoint/
TwitterAgent.channels.FileChannel.dataDir = /home/shashi/apache-flume-1.7.0-bin/var/log/flume/data/
```

3. Execution of command to load data from Twitter source and loading into HDFS

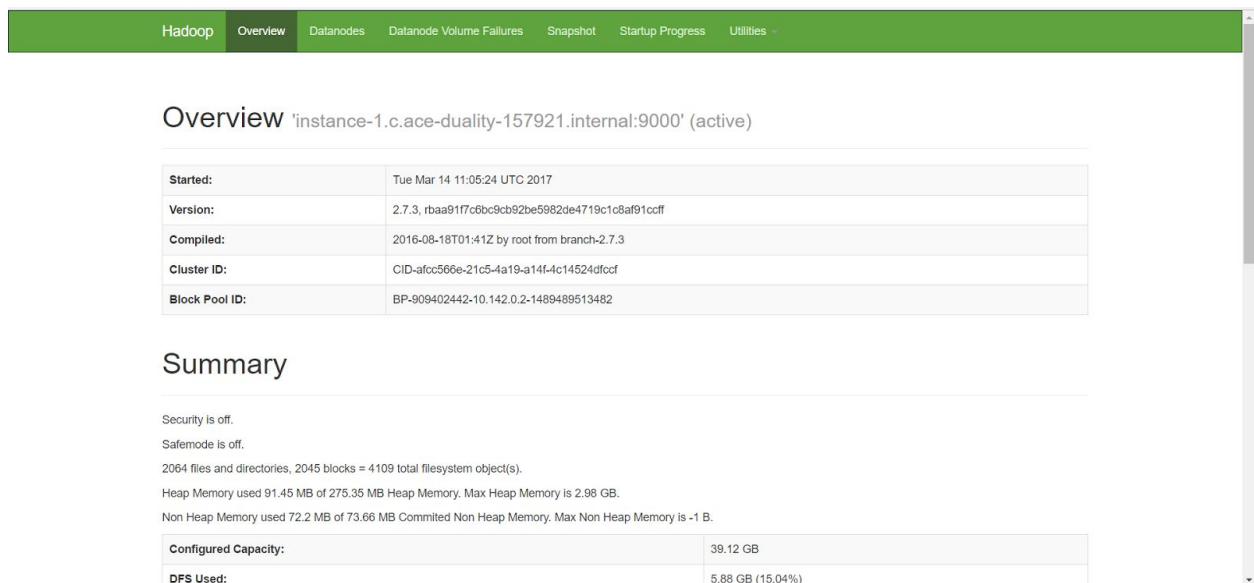
```
bin/flume-ng agent --conf ./conf/ -f conf/twit.conf Dflume.root.logger=DEBUG,console -n
TwitterAgent >> log1 2>&1 &
```



```
1. shashi@instance-1: ~/apache-flume-1.7.0-bin (ssh)
shashi@instance-1:~$ bin/flume-ng agent --conf ./conf/ -f conf/twit.conf Dflume.root.logger=DEBUG,console -n
TwitterAgent >> log1 2>&1 &
18 Mar 2017 22:44:28,865 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,237,400 docs
18 Mar 2017 22:44:31,794 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,237,500 docs
18 Mar 2017 22:44:33,890 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,237,600 docs
18 Mar 2017 22:44:36,021 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,237,700 docs
18 Mar 2017 22:44:38,880 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,237,800 docs
18 Mar 2017 22:44:40,897 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,237,900 docs
18 Mar 2017 22:44:43,850 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,238,000 docs
18 Mar 2017 22:44:43,850 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.logStats:295) - Total docs indexed: 6,238,000, total skip
ed docs: 0
18 Mar 2017 22:44:43,850 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.logStats:297) - 40 docs/second
18 Mar 2017 22:44:43,850 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.logStats:299) - Run took 155,835 seconds and processed:
18 Mar 2017 22:44:43,850 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.logStats:301) - 0.01 MB/sec sent to index
18 Mar 2017 22:44:43,850 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.logStats:303) - 1,627,492 MB text sent to index
18 Mar 2017 22:44:43,850 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.logStats:305) - There were 0 exceptions ignored:
18 Mar 2017 22:44:46,784 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,238,100 docs
18 Mar 2017 22:44:48,949 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,238,200 docs
18 Mar 2017 22:44:51,867 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,238,300 docs
18 Mar 2017 22:44:54,377 INFO [SinkRunner-PollingRunner-DefaultSinkProcessor] (org.apache.flume.sink.hdfs.HDFSDataStream.configure:57) - Serializer = TEXT, UseRawLocal
FileSystem = false
18 Mar 2017 22:44:54,393 INFO [SinkRunner-PollingRunner-DefaultSinkProcessor] (org.apache.flume.sink.hdfs.BucketWriter.open:231) - Creating hdfs://10.142.0.2:9000/user
/Hadoop/twitter_data/FlumeData.
1489877094378.tmp
18 Mar 2017 22:44:54,870 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,238,400 docs
18 Mar 2017 22:44:57,851 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,238,500 docs
18 Mar 2017 22:44:59,950 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,238,600 docs
18 Mar 2017 22:45:01,976 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,238,700 docs
18 Mar 2017 22:45:04,320 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,238,800 docs
18 Mar 2017 22:45:06,814 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,238,900 docs
18 Mar 2017 22:45:08,868 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,239,000 docs
18 Mar 2017 22:45:08,868 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.logStats:295) - Total docs indexed: 6,239,000, total skip
ed docs: 0
18 Mar 2017 22:45:08,868 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.logStats:297) - 40 docs/second
18 Mar 2017 22:45:08,868 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.logStats:299) - Run took 155,860 seconds and processed:
18 Mar 2017 22:45:08,868 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.logStats:301) - 0.01 MB/sec sent to index
18 Mar 2017 22:45:08,869 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.logStats:303) - 1,627,746 MB text sent to index
18 Mar 2017 22:45:08,869 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.logStats:305) - There were 0 exceptions ignored:
18 Mar 2017 22:45:10,887 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,239,100 docs
18 Mar 2017 22:45:12,925 INFO [Twitter4] Async Dispatcher[0] (org.apache.flume.source.twitter.TwitterSource.onStatus:173) - Processed 6,239,200 docs
shashi@instance-1:~/apache-flume-1.7.0-bin$
```

Namenode Server Check(35.185.67.36:50070)

<http://35.185.67.36:50070/dfshealth.html#tab-overview>



Hadoop Overview Datanodes Datanode Volume Failures Snapshot Startup Progress Utilities

Overview 'instance-1.c.ace-duality-157921.internal:9000' (active)

Started:	Tue Mar 14 11:05:24 UTC 2017
Version:	2.7.3, rbaa917c6bc9cb92be5982de47191c8a91c0ff
Compiled:	2016-08-18T01:41Z by root from branch-2.7.3
Cluster ID:	CID-afcc566e-21c5-4a19-a14f-4c14524dfccf
Block Pool ID:	BP-909402442-10.142.0.2-1489489513482

Summary

Security is off.
Safemode is off.
2064 files and directories, 2045 blocks = 4109 total filesystem object(s).
Heap Memory used 91.45 MB of 275.35 MB Heap Memory. Max Heap Memory is 2.98 GB.
Non Heap Memory used 72.2 MB of 73.66 MB Committed Non Heap Memory. Max Non Heap Memory is -1 B.

Configured Capacity:	39.12 GB
DFS Used:	5.88 GB (15.04%)

← → ↻ 35.185.67.36:50070/dfshealth.html#tab-overview ☆ ⋮

Safemode is off.
2064 files and directories, 2045 blocks = 4109 total filesystem object(s).
Heap Memory used 91.45 MB of 275.35 MB Heap Memory. Max Heap Memory is 2.98 GB.
Non Heap Memory used 72.2 MB of 73.66 MB Committed Non Heap Memory. Max Non Heap Memory is -1 B.

Configured Capacity:	39.12 GB
DFS Used:	5.88 GB (15.04%)
Non DFS Used:	12.81 GB
DFS Remaining:	20.42 GB (52.21%)
Block Pool Used:	5.88 GB (15.04%)
DataNodes usages% (Min/Median/Max/stdDev):	15.04% / 15.04% / 15.04% / 0.00%
Live Nodes	2 (Decommissioned: 0)
Dead Nodes	0 (Decommissioned: 0)
Decommissioning Nodes	0
Total Datanode Volume Failures	0 (0 B)
Number of Under-Replicated Blocks	0
Number of Blocks Pending Deletion	0
Block Deletion Start Time	3/14/2017, 4:05:24 AM

NameNode Journal Status

Hadoop daemon process by command line

jps (command)

```
shashi@instance-1:~$ jps
9648 SecondaryNameNode
9812 ResourceManager
9909 NodeManager
6406 Bootstrap
17879 Jps
9352 NameNode
9454 DataNode
shashi@instance-1:~$ clear
shashi@instance-1:~$ jps
9648 SecondaryNameNode
9812 ResourceManager
9909 NodeManager
6406 Bootstrap
17895 Jps
9352 NameNode
9454 DataNode
shashi@instance-1:~$ hdfs dfsadmin -report
17/03/25 22:21:11 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Configured Capacity: 42003021824 (39.12 GB)
Present Capacity: 25071865856 (23.35 GB)
DFS Remaining: 18753622016 (17.47 GB)
DFS Used: 6318243840 (5.88 GB)
DFS Used%: 25.20%
Under replicated blocks: 0
Blocks with corrupt replicas: 0
Missing blocks: 0
Missing blocks (with replication factor 1): 0

-----
Live datanodes (2):

Name: 10.142.0.3:50010 (instance-2.c.ace-duality-157921.internal)
Hostname: instance-2.c.ace-duality-157921.internal
Decommission Status : Normal
Configured Capacity: 21001510912 (19.56 GB)
DFS Used: 3159126016 (2.94 GB)
Non DFS Used: 4421447680 (4.12 GB)
DFS Remaining: 13420937216 (12.50 GB)
DFS Used%: 15.04%
DFS Remaining%: 63.90%
Configured Cache Capacity: 0 (0 B)
Cache Used: 0 (0 B)
Cache Remaining: 0 (0 B)
Cache Used%: 100.00%
```

4. Report of Hadoop cluster from command line

hdfs dfsadmin -report

```
Under replicated blocks: 0
Blocks with corrupt replicas: 0
Missing blocks: 0
Missing blocks (with replication factor 1): 0

-----
Live datanodes (2):

Name: 10.142.0.3:50010 (instance-2.c.ace-duality-157921.internal)
Hostname: instance-2.c.ace-duality-157921.internal
Decommission Status : Normal
Configured Capacity: 21001510912 (19.56 GB)
DFS Used: 3159126016 (2.94 GB)
Non DFS Used: 4421447680 (4.12 GB)
DFS Remaining: 13420937216 (12.50 GB)
DFS Used%: 15.04%
DFS Remaining%: 63.90%
Configured Cache Capacity: 0 (0 B)
Cache Used: 0 (0 B)
Cache Remaining: 0 (0 B)
Cache Used%: 100.00%
Cache Remaining%: 0.00%
Xceivers: 1
Last contact: Sat Mar 25 22:21:10 UTC 2017

Name: 10.142.0.2:50010 (instance-1.c.ace-duality-157921.internal)
Hostname: instance-1.c.ace-duality-157921.internal
Decommission Status : Normal
Configured Capacity: 21001510912 (19.56 GB)
DFS Used: 3159117824 (2.94 GB)
Non DFS Used: 12509708288 (11.65 GB)
DFS Remaining: 5332684800 (4.97 GB)
DFS Used%: 15.04%
DFS Remaining%: 25.39%
Configured Cache Capacity: 0 (0 B)
Cache Used: 0 (0 B)
Cache Remaining: 0 (0 B)
Cache Used%: 100.00%
Cache Remaining%: 0.00%
Xceivers: 1
Last contact: Sat Mar 25 22:21:11 UTC 2017
```


5. Checking files loaded in HDFS from UI

http://35.185.67.36:50070/explorer.html#/user/Hadoop/twitter_data

Click the link for seeing the data . We will not be able to see any data file currently as all the files are processed by copying them to the tables. Once the data is copied the files are flushed from HDFS. .

Hadoop Overview Datanodes Snapshot Startup Progress Utilities							
Browse Directory							
/user/Hadoop/twitter_data							Go!
Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
-rw-r--r--	shashi	supergroup	1.43 MB	3/18/2017, 3:17:03 PM	2	128 MB	FlumeData.1489875393051
-rw-r--r--	shashi	supergroup	1.32 MB	3/18/2017, 3:18:43 PM	2	128 MB	FlumeData.1489875493181
-rw-r--r--	shashi	supergroup	1.35 MB	3/18/2017, 3:20:23 PM	2	128 MB	FlumeData.1489875593255
-rw-r--r--	shashi	supergroup	1.42 MB	3/18/2017, 3:22:03 PM	2	128 MB	FlumeData.1489875693313
-rw-r--r--	shashi	supergroup	1.33 MB	3/18/2017, 3:23:43 PM	2	128 MB	FlumeData.1489875793360
-rw-r--r--	shashi	supergroup	1.41 MB	3/18/2017, 3:25:23 PM	2	128 MB	FlumeData.1489875893422
-rw-r--r--	shashi	supergroup	1.42 MB	3/18/2017, 3:27:03 PM	2	128 MB	FlumeData.1489875993602
-rw-r--r--	shashi	supergroup	1.41 MB	3/18/2017, 3:28:43 PM	2	128 MB	FlumeData.1489876093711
-rw-r--r--	shashi	supergroup	1.36 MB	3/18/2017, 3:30:23 PM	2	128 MB	FlumeData.1489876193772
-rw-r--r--	shashi	supergroup	1.5 MB	3/18/2017, 3:32:03 PM	2	128 MB	FlumeData.1489876293839
-rw-r--r--	shashi	supergroup	1.46 MB	3/18/2017, 3:33:43 PM	2	128 MB	FlumeData.1489876393899
-rw-r--r--	shashi	supergroup	1.41 MB	3/18/2017, 3:35:24 PM	2	128 MB	FlumeData.1489876493962
-rw-r--r--	shashi	supergroup	1.47 MB	3/18/2017, 3:37:04 PM	2	128 MB	FlumeData.1489876594032

6. Loading data from HDFS to Hive tables by using Avro and schema definition.

Creating tweets table


```

CREATE EXTERNAL TABLE tweets_avro_table (
  id string,
  user_friends_count int,
  user_location string,
  user_description string,
  user_statuses_count int,
  user_followers_count int,
  user_name string,
  user_screen_name string,
  created_at string,
  text string,
  retweet_count bigint,
  retweeted boolean,
  in_reply_to_user_id bigint,
  source string,
  in_reply_to_status_id bigint,
  media_url_https string,
  expanded_url string
)
STORED AS AVRO
LOCATION '/user/externaltables/';

INSERT OVERWRITE TABLE tweets_avro_table SELECT * FROM tweets LIMIT
2500;

```

```

Logging initialized using configuration in jar:file:/home/shashi/apache-hive-1.2.1-bin/lib/hive-common-1.2.1.jar!/hive-log4j.properties
OK
Time taken: 2.528 seconds

Logging initialized using configuration in jar:file:/home/shashi/apache-hive-1.2.1-bin/lib/hive-common-1.2.1.jar!/hive-log4j.properties
OK
Time taken: 1.65 seconds
Query ID = shashi_20170318225732_d7175625-3f11-4e7b-ae12-11c2f783a92b
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Starting Job = job_1489489551193_0039, Tracking URL = http://instance-1.c.ace-duality-157921.internal:8088/proxy/application_1489489551193_0039/
Kill Command = /home/shashi/hadoop-2.7.3/bin/hadoop job -kill job_1489489551193_0039
Hadoop job information for Stage-1: number of mappers: 12; number of reducers: 1
2017-03-18 22:57:41,618 Stage-1 map = 0%, reduce = 0%
2017-03-18 22:58:18,372 Stage-1 map = 8%, reduce = 0%, Cumulative CPU 46.79 sec
2017-03-18 22:58:22,029 Stage-1 map = 17%, reduce = 0%, Cumulative CPU 48.93 sec
2017-03-18 22:58:23,189 Stage-1 map = 25%, reduce = 0%, Cumulative CPU 50.54 sec
2017-03-18 22:58:24,345 Stage-1 map = 42%, reduce = 0%, Cumulative CPU 56.41 sec
2017-03-18 22:58:25,476 Stage-1 map = 75%, reduce = 0%, Cumulative CPU 69.51 sec
2017-03-18 22:58:26,641 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 80.86 sec
2017-03-18 22:58:31,015 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 84.82 sec
MapReduce Total cumulative CPU time: 1 minutes 24 seconds 820 msec
Ended Job = job_1489489551193_0039
Loading data to table default.tweets_avro_table
Table default.tweets_avro_table stats: [numFiles=0, numRows=2500, totalSize=0, rawDataSize=0]
MapReduce Jobs Launched:
Stage-Stage-1: Map: 12 Reduce: 1 Cumulative CPU: 84.82 sec HDFS Read: 28772039 HDFS Write: 975633 SUCCESS
Total MapReduce CPU Time Spent: 1 minutes 24 seconds 820 msec
OK
Time taken: 61.51 seconds

Logging initialized using configuration in jar:file:/home/shashi/apache-hive-1.2.1-bin/lib/hive-common-1.2.1.jar!/hive-log4j.properties
OK
Time taken: 2.799 seconds, Fetched: 36 row(s)
calling web service1 2 exception
false
calling web service1 3 exception

```

application_id	user	job_name	type	priority	status	completion_time
application_1489489551193_0038	shashi	INSERT OVERWRITE TABLE tweets_avro_ta...2500(Stage-1)	MAPREDUCE	default	FINISHED	SUCCEEDED
application_1489489551193_0037	shashi	INSERT OVERWRITE TABLE tweets_avro_ta...2500(Stage-1)	MAPREDUCE	default	FINISHED	SUCCEEDED
application_1489489551193_0036	shashi	INSERT OVERWRITE TABLE tweets_avro_ta...2500(Stage-1)	MAPREDUCE	default	FINISHED	SUCCEEDED
application_1489489551193_0035	shashi	INSERT OVERWRITE TABLE tweets_avro_ta...2500(Stage-1)	MAPREDUCE	default	FINISHED	SUCCEEDED
application_1489489551193_0034	shashi	INSERT OVERWRITE TABLE tweets_avro_ta...2500(Stage-1)	MAPREDUCE	default	FINISHED	SUCCEEDED
application_1489489551193_0033	shashi	select id, "id", count(text) from ...id(Stage-1)	MAPREDUCE	default	FINISHED	SUCCEEDED
application_1489489551193_0032	shashi	select id, "id", count(text) as Name...id(Stage-1)	MAPREDUCE	default	FINISHED	SUCCEEDED

8. Web Services (Rest API) (SnapShot of Code)

Three rest services are mentioned here :

1. Tweets Based on timestamp
2. Number of tweets for particular id
3. Number of retweet count of given id

serManagement/src/com/tutorialspoint/UserService.java - Eclipse - /Users/shashi/Documents/workspace_pyck

```
1 package com.tutorialspoint;
2
3
4 import java.util.List;
5
6 @Path("/UserService")
7
8 public class UserService {
9     UserDao userDao = new UserDao();
10
11     @GET
12     @Path("/users")
13     @Produces(MediaType.APPLICATION_XML)
14     public List<User> getUsers(){
15         return userDao.getAllUsers();
16     }
17
18     @GET
19     @Path("/users/{timestamp}")
20     @Produces(MediaType.APPLICATION_XML)
21     public List<User> getUser(@PathParam("timestamp") String timestamp){
22
23         System.out.println(" "+ timestamp);
24         return userDao.getTweets(timestamp);
25     }
26
27     @GET
28     @Path("/user/{userid}")
29     @Produces(MediaType.APPLICATION_XML)
30     public User getUser(@PathParam("userid") long userid){
```

Markers Properties Servers Data Sour Snippets Problems Console Git Repos Git Stagin History Terminal

No consoles to display at this time

```
85 public List<User> getTweets(String timestamp) {
86     // TODO Auto-generated method stub
87
88     List<User> al = new ArrayList<User>();
89     try
90     {
91         Runtime rt = Runtime.getRuntime();
92         Process proc = rt.exec(" sh /home/shashi/finalscript1.sh "+timestamp);
93         //output both stdout and stderr data from proc to stdout of this process
94         StreamGobbler errorGobbler = new StreamGobbler(proc.getErrorStream());
95         StreamGobbler outputGobbler = new StreamGobbler(proc.getInputStream());
96         errorGobbler.start();
97         outputGobbler.start();
98         proc.waitFor();
99     }
100     catch(Exception e1)
101     {
102         System.out.println(" calling web service1 execution ");
103     }
104
105     BufferedReader bfr =null;
106
107     try
108     {
109         File f1= new File("/home/shashi/output1");
110         System.out.println(f1.exists());
111     }
```

Markers Properties Servers Data Sour Snippets Problems Console Git Repos Git Stagin History Terminal

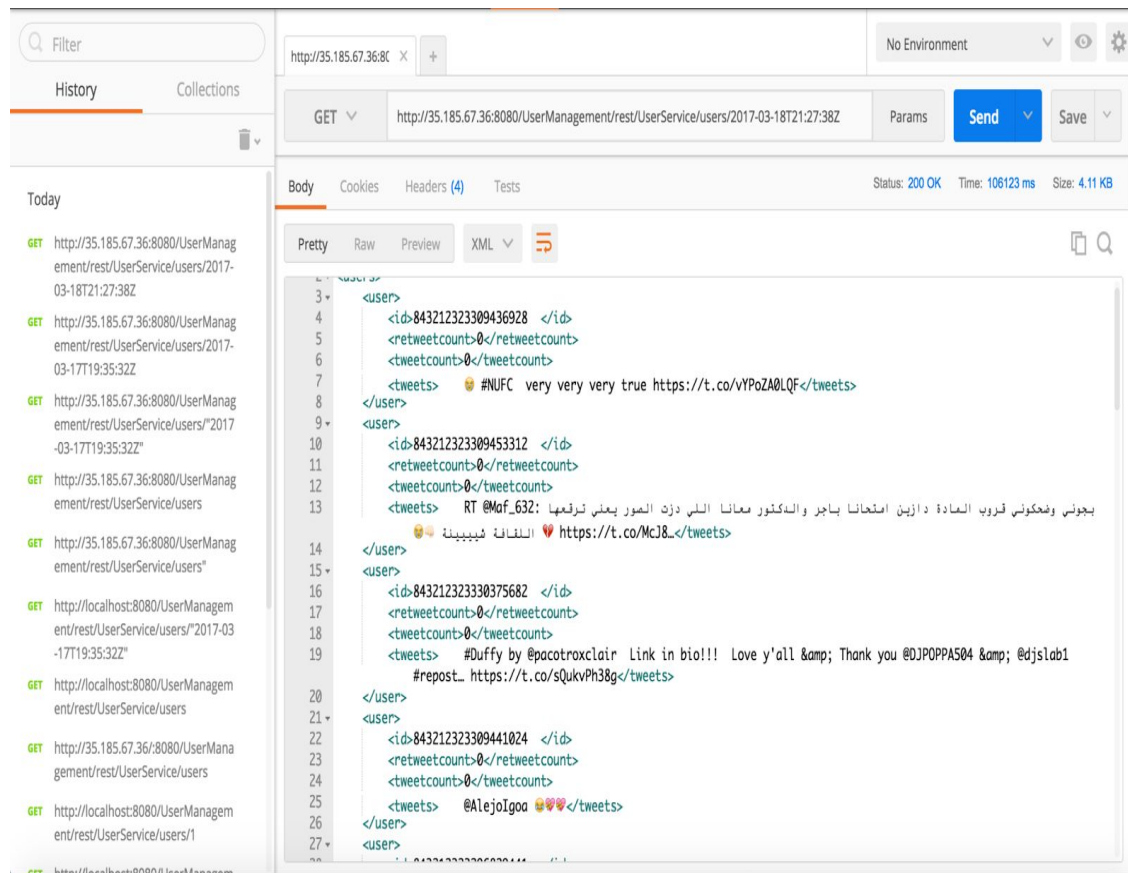
No consoles to display at this time

9. Queries Output :

Query 1 :

Input : Timestamp (timestamp passes in url)

Output : UserId, Tweet text based on timestamp



The screenshot shows a REST client interface with a GET request to the endpoint `http://35.185.67.36:8080/UserManagement/rest/UserService/users/2017-03-18T21:27:38Z`. The response is a JSON array of user objects. The first user has an id of 843212323309436928 and a tweet that says "#NUFC very very very true https://t.co/vYPoZA0LQF". The second user has an id of 843212323309453312 and a tweet that says "RT @Mof_632: بجوني وضفكوني قروب المادة دازين امتحانا باجر والدكتور معانا الذي ذنن الصور يعني نرقعها https://t.co/McJ8...". The third user has an id of 84321232330375682 and a tweet that says "#Duffy by @pacotroxclair Link in bio!!! Love y'all & Thank you @DJPOPPAS04 & @djslab1 #repost... https://t.co/sQukvPh38g". The fourth user has an id of 843212323309441024 and a tweet that says "@AlejoIgoa 🍷🍷🍷".

```
3 <user>
4   <id>843212323309436928 </id>
5   <retweetcount>0</retweetcount>
6   <tweetcount>0</tweetcount>
7   <tweets> 🍷 #NUFC very very very true https://t.co/vYPoZA0LQF</tweets>
8 </user>
9 <user>
10  <id>843212323309453312 </id>
11  <retweetcount>0</retweetcount>
12  <tweetcount>0</tweetcount>
13  <tweets> RT @Mof_632: بجوني وضفكوني قروب المادة دازين امتحانا باجر والدكتور معانا الذي ذنن الصور يعني نرقعها https://t.co/McJ8...</tweets>
14 </user>
15 <user>
16  <id>84321232330375682 </id>
17  <retweetcount>0</retweetcount>
18  <tweetcount>0</tweetcount>
19  <tweets> #Duffy by @pacotroxclair Link in bio!!! Love y'all & Thank you @DJPOPPAS04 & @djslab1 #repost... https://t.co/sQukvPh38g</tweets>
20 </user>
21 <user>
22  <id>843212323309441024 </id>
23  <retweetcount>0</retweetcount>
24  <tweetcount>0</tweetcount>
25  <tweets> @AlejoIgoa 🍷🍷🍷</tweets>
26 </user>
27 <user>
```

Query 2

Input : UserId (User Id passed in URL)

Output : UserId, number of tweets for user

The screenshot shows a REST client interface with a 'History' tab on the left and a 'Body' tab on the right. The 'History' tab lists several GET requests to a REST API. The 'Body' tab shows the response of a GET request to the endpoint `http://35.185.67.36:8080/UserManagement/rest/UserService/user/843212029724950530`. The response is an XML document with the following structure:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<user>
  <id>843212029724950530</id>
  <retweetcount>0</retweetcount>
  <tweetcount>0</tweetcount>
</user>
```

The status of the request is 200 OK, with a response time of 127017 ms and a size of 287 B.

Query 3 :

Input : UserId (many User Ids passed in URL)

Output : UserId, Retweet Count

Filter

HistoryCollections

Today

GET

http://35.185.67.36:8080/UserManagement/rest/UserService/user/843212151330344961/8432121513262325

GET

http://35.185.67.36:8080/UserManagement/rest/UserService/user/843212147148709888

GET

http://35.185.67.36:8080/UserManagement/rest/UserService/user/843212029724950530

GET

http://35.185.67.36:8080/UserManagement/rest/UserService/user/842821439355064321

GET

http://35.185.67.36:8080/UserManagement/rest/UserService/users/2017-03-18T21:27:38Z

GET

http://35.185.67.36:8080/UserManagement/rest/UserService/users/2017-03-17T19:35:32Z

GET

http://35.185.67.36:8080/UserManagement/rest/UserService/users/"2017-03-17T19:35:32Z"

GET

http://35.185.67.36:8080/UserManagement/rest/UserService/users

GET

http://35.185.67.36:8080/UserManag

http://35.185.67.36:8080 x +

No Environment

GET http://35.185.67.36:8080/UserManagement/rest/UserService/user/843212151330344961/8432121513262325 Params Send Save

BodyCookiesHeaders (4)TestsStatus: 200 OKTime: 110881 msSize: 399 B

PrettyRawPreviewXML

```
1 <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2 <users>
3   <user>
4     <id>843212151330344961 </id>
5     <retweetcount>0</retweetcount>
6     <tweetcount>0</tweetcount>
7   </user>
8   <user>
9     <id>843212151326232576 </id>
10    <retweetcount>0</retweetcount>
11    <tweetcount>0</tweetcount>
12  </user>
13 </users>
```