Assignment 2 Cloud Technologies

Group L

Shivam, Kanmani, Kevin, Nitin

About

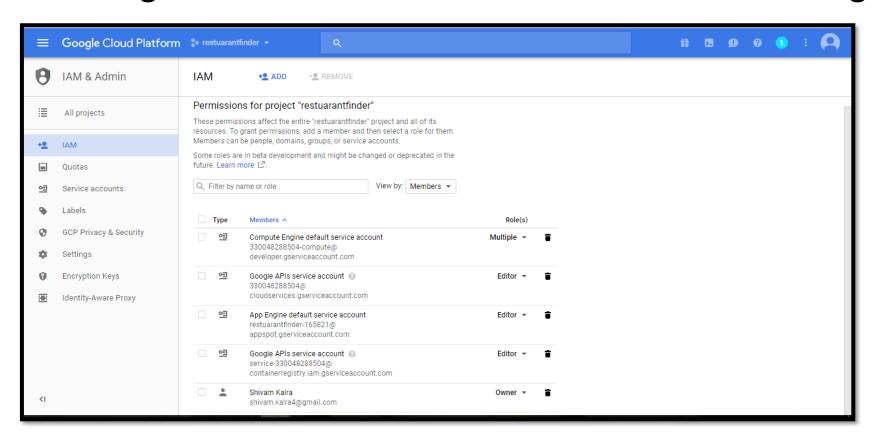
- Our assignment is based upon the Restaurants in USA.
 - We have taken the data from Kaggle.
 - Tools which we used are:
 - Ms Excel
 - My SQL
 - HTML, CSS
 - Java, JavaScript
 - Hadoop Virtual Machine
 - Google Cloud Platform
 - Google SQL
 - Google DataProc Hive
 - Google Storage

Assigned Task

- Use Cloud Services
 - Google Cloud Platform
 - Compute Engine
 - Storage
 - SQL
 - DataProc
- Help Kevin and Nitin in making UI

My Work in Detail

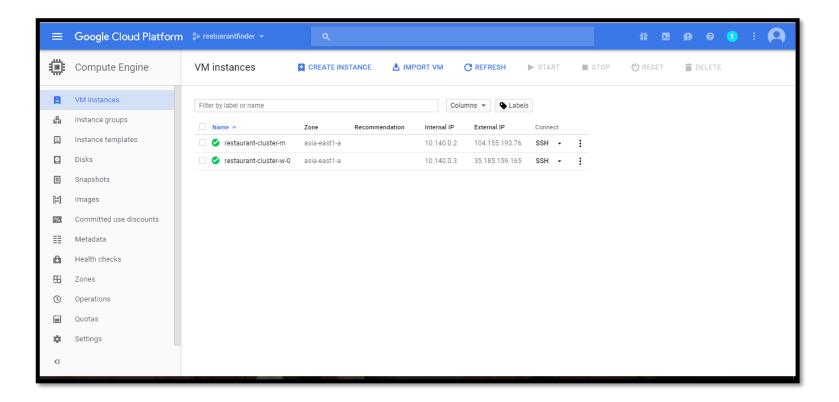
• Used Google Cloud Platform as Cloud service for the Assignment.



Cont..

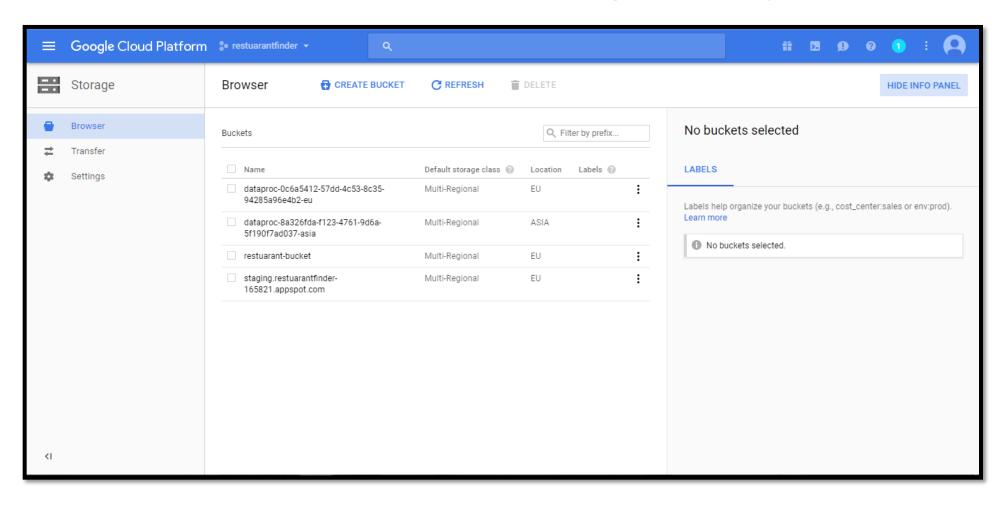
Services I used in Google Cloud

Compute Engine – Make master node and worker node, to help in processing the tasks given to another cloud services.



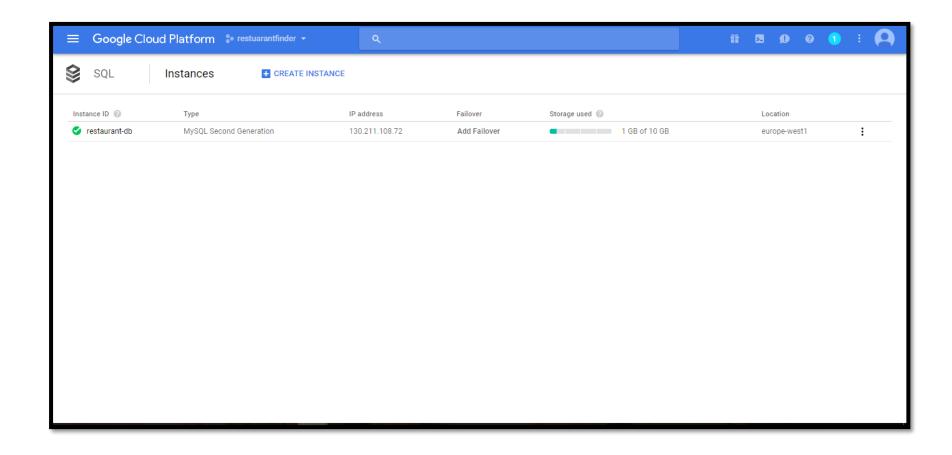
Cont..

 Use Cloud Storage to save the data and make the other cloud services easier to share the data and save the logs and output.



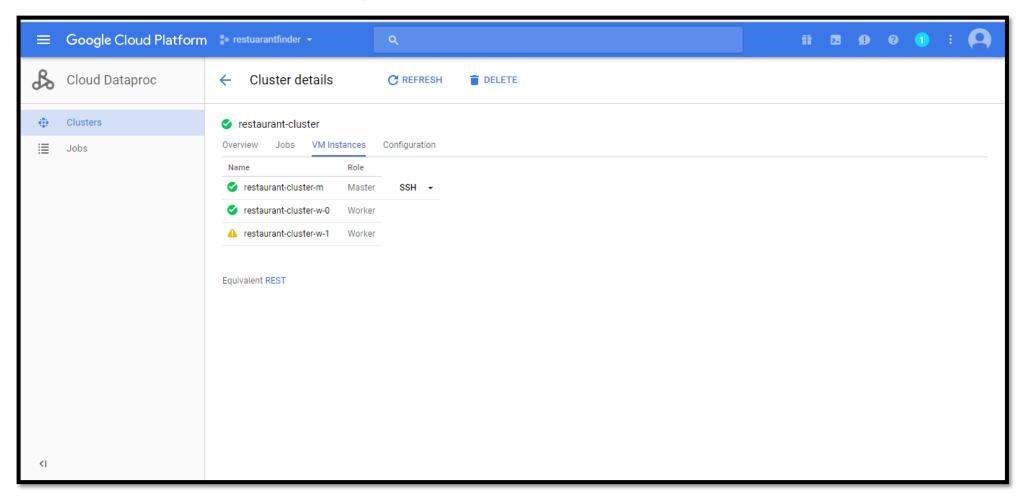
Cont...

• Use Cloud SQL, trying to connect the application with this for the output(Failed to do so).



Cont...

 Use Google DataProc to implement Hive(Hive/Beeline) on the data stored in the Cloud Storage.



Cont... Use hive

```
■ Secure https://ssh.cloud.google.com/projects/restuarantfinder-165821/zones/asia-east1-a/instances/restaurant-cluster-m?authuser=0&hl=en US&projectNumber=330048288504
shivam kalra4@restaurant-cluster-m:~$ hive
                                                                                                                                                                  ...... *
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hive/lib/log4j-slf4j-impl-2.4.1.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple bindings for an explanation.
SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]
Logging initialized using configuration in jar:file:/usr/lib/hive/lib/hive-common-2.1.1.jar!/hive-log4j2.properties Async: true
Hive-on-MR is deprecated in Hive 2 and may not be available in the future versions. Consider using a different execution engine (i.e. spark, tez) or using Hive 1.X releas
hive> select * from retaurant where id < 10;
FAILED: SemanticException [Error 10001]: Line 1:14 Table not found 'retaurant'
hive> select * from restaurant where id < 10;
                pizza 666 Monroe St N E Washington Dc DC US
                                836 1/2 Main St Louisville CO US
                the Square - Middletown 1045 Central Ave Middletown OH US
                Famous Dave's 3803 9th St S W Puyallup WA US
                Famous Dave's - Lombard 206 Yorktown Shopping Ctr Lombard IL US
                Famous Dave's - Plymouth
                                               11308 Mn Highway 55 Plymouth MN US
                Famous Dave's - Upton Avenue 4264 S Upton Ave Minneapolis MN US
                Famous Dave's Bar-b-que 1443 Us 22 Mountainside NJ US
                Famous Dave's Forest Lake Mn - Hours Reviews & More 43 19th St S W Forest Lake MN US
Time taken: 1.559 seconds, Fetched: 9 row(s)
hive>
```

Cont...

Use Beeline

```
Time taken: 1.009 seconds, retoned: 9 row(s)
hive>
[6]+ Stopped
shivam kalra4@restaurant-cluster-m:~$ beeline -u jdbc:hive2://localhost:10000/default -n shivam kalra4@restaurant-cluster-m -d orq.apache.hive.jdbc.HiveDriver
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hive/lib/log4j-slf4j-impl-2.4.1.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple bindings for an explanation.
SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]
Connecting to jdbc:hive2://localhost:10000/default
Connected to: Apache Hive (version 2.1.1)
Driver: Hive JDBC (version 2.1.1)
17/04/28 22:16:07 [main]: WARN jdbc.HiveConnection: Request to set autoCommit to false; Hive does not support autoCommit=false.
Transaction isolation: TRANSACTION REPEATABLE READ
Beeline version 2.1.1 by Apache Hive
0: jdbc:hive2://localhost:10000/default> select * from restaurant where id< 10;
                                                         restaurant.name
                                                                                                         restaurant.address
                                     pizza
                                                                                            | 666 Monroe St N E Washington Dc DC US
                 1 33
                                     | Wine House
                                                                                            | 836 1/2 Main St Louisville CO US
                 1 63
                                     | the Square - Middletown
                                                                                            | 1045 Central Ave Middletown OH US
                                     | Famous Dave's
                                                                                            | 3803 9th St S W Puyallup WA US
                 1 68
                                     | Famous Dave's - Lombard
                                                                                            | 206 Yorktown Shopping Ctr Lombard IL US
                 1 17
                                     | Famous Dave's - Plymouth
                                                                                            | 11308 Mn Highway 55 Plymouth MN US
                 1 59
                                     | Famous Dave's - Upton Avenue
                                                                                            | 4264 S Upton Ave Minneapolis MN US
                 1 30
                                     | Famous Dave's Bar-b-que
                                                                                            | 1443 Us 22 Mountainside NJ US
                                     | Famous Dave's Forest Lake Mn - Hours Reviews & More | 43 19th St S W Forest Lake MN US
9 rows selected (0.26 seconds)
0: jdbc:hive2://localhost:10000/default>
```

Thank You