GCP Learning Series: connecting MySQL Client from Compute Engine

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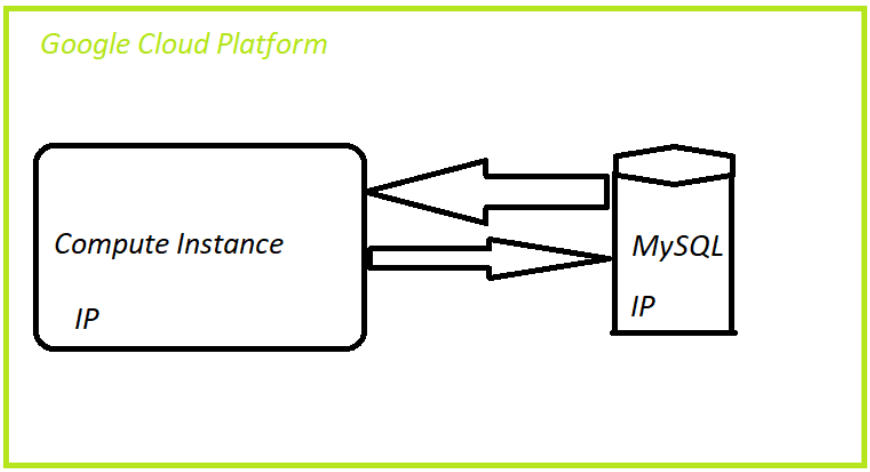
Often you need to host a database in a cloud for different purposes. It is the most basic thing that needs to be done for any online software or apps. We already have computing capability in the cloud so, it will be a good idea to use compute instance to connect database instance for carrying out the task.

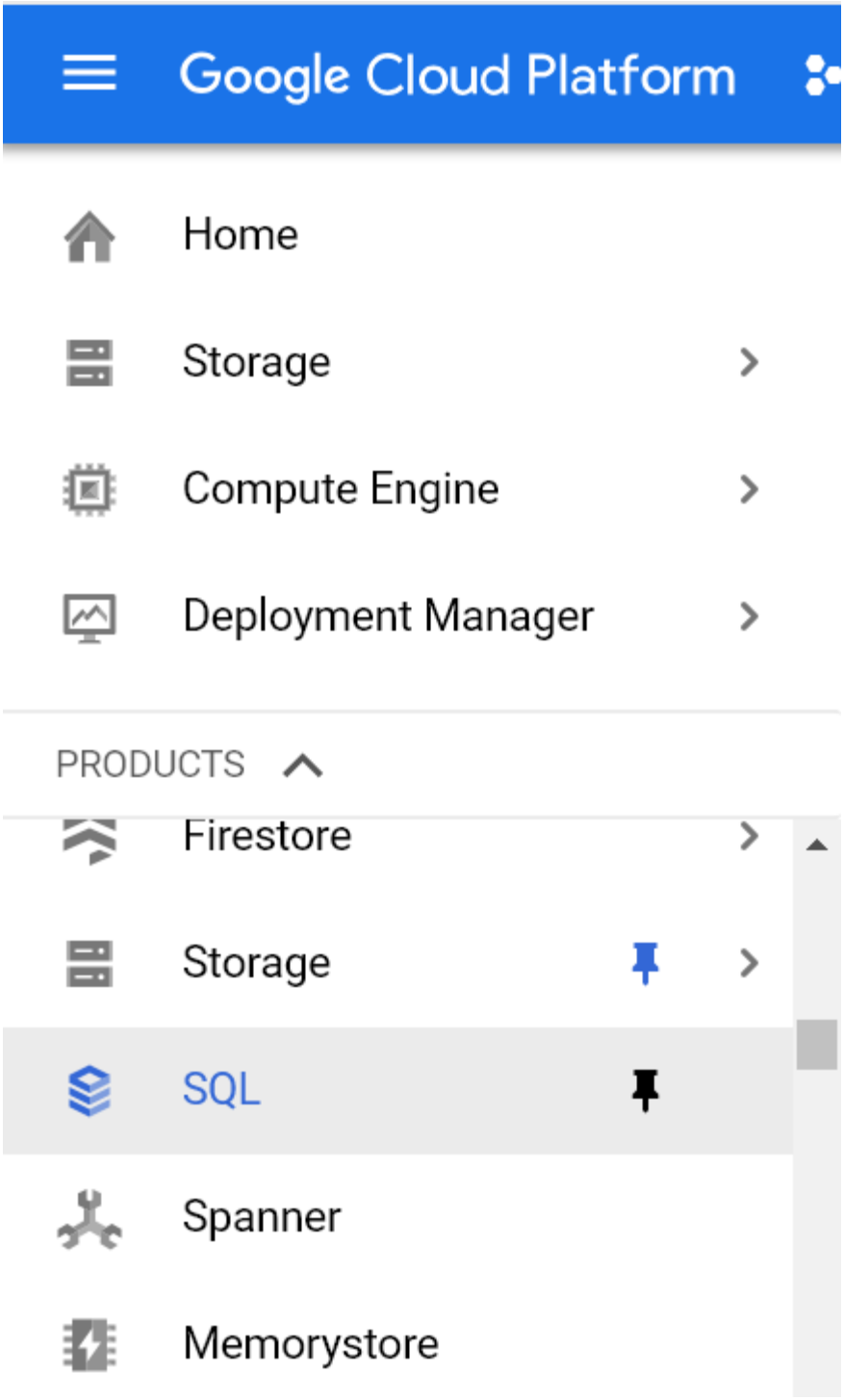


The process is consist of three steps

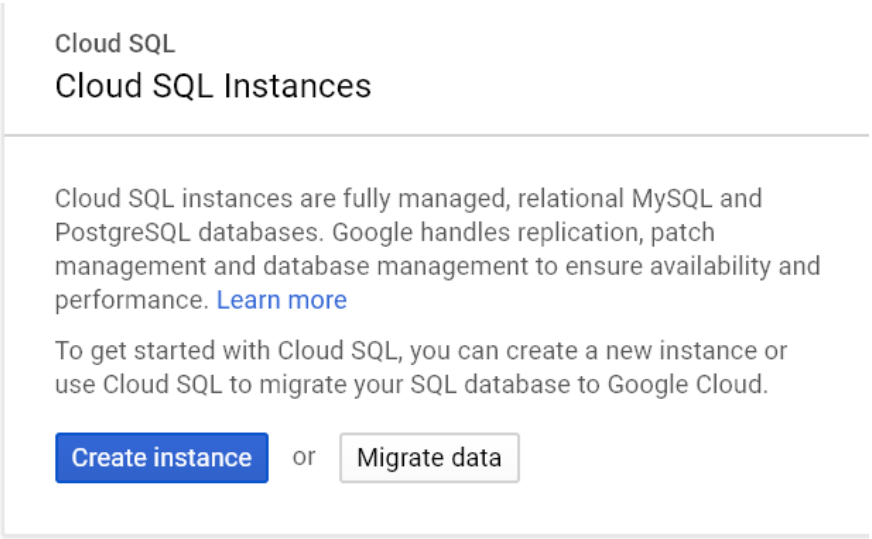
1. Setup Cloud SQL
2. Setup Compute Instance
3. Connect two instances

1 Setup Cloud SQL

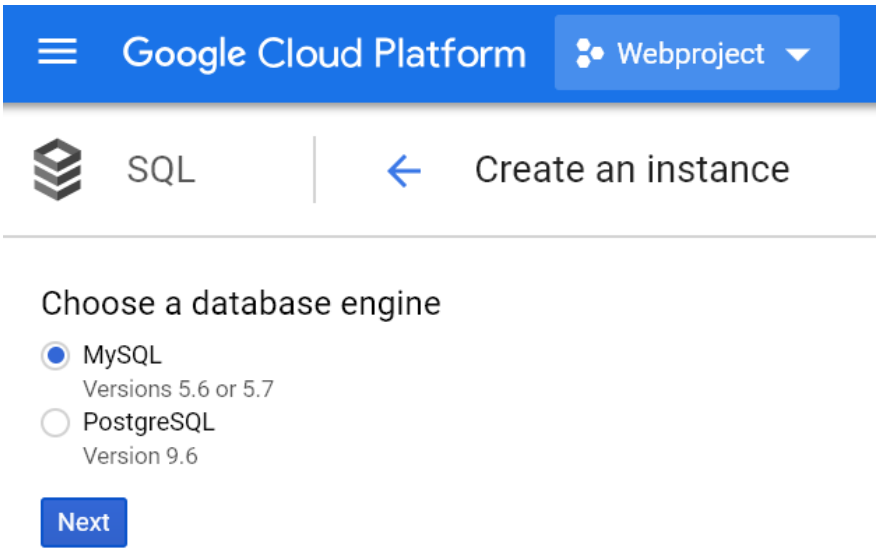
First, goto GCP Console and click on SQL



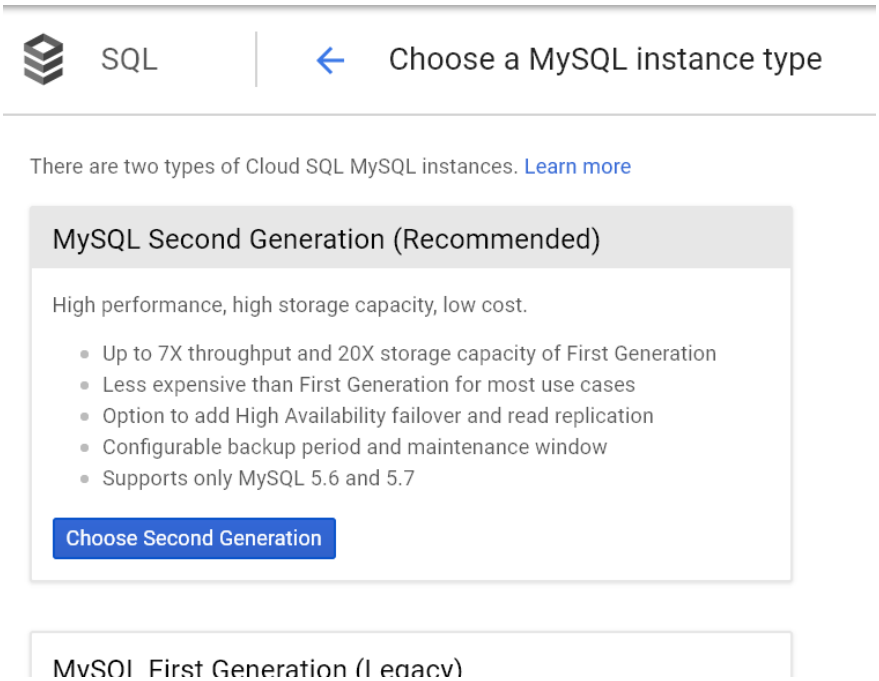
Second, click on Create Instance



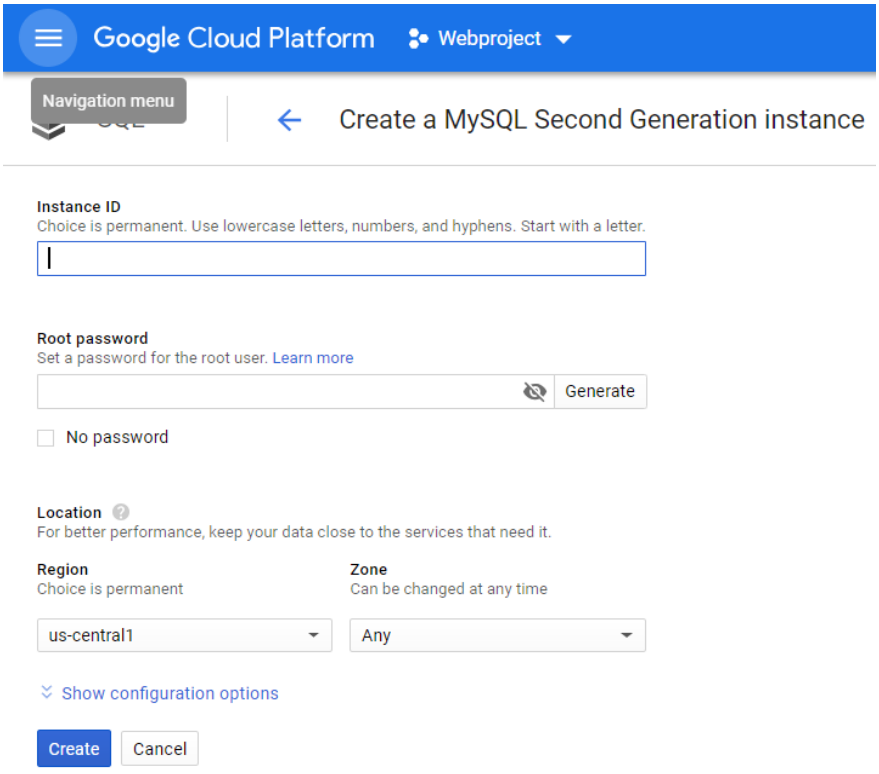
Select MySQL



Select the second generation, which is also mentioned as recommended.

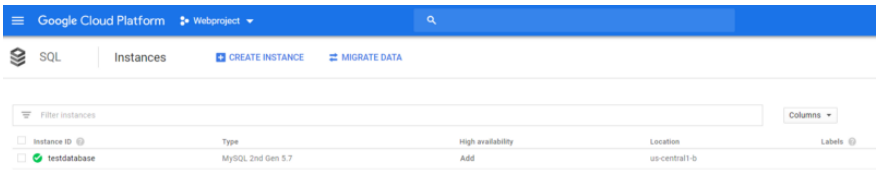


Now input the instance name for your database, root password and the location of the database.



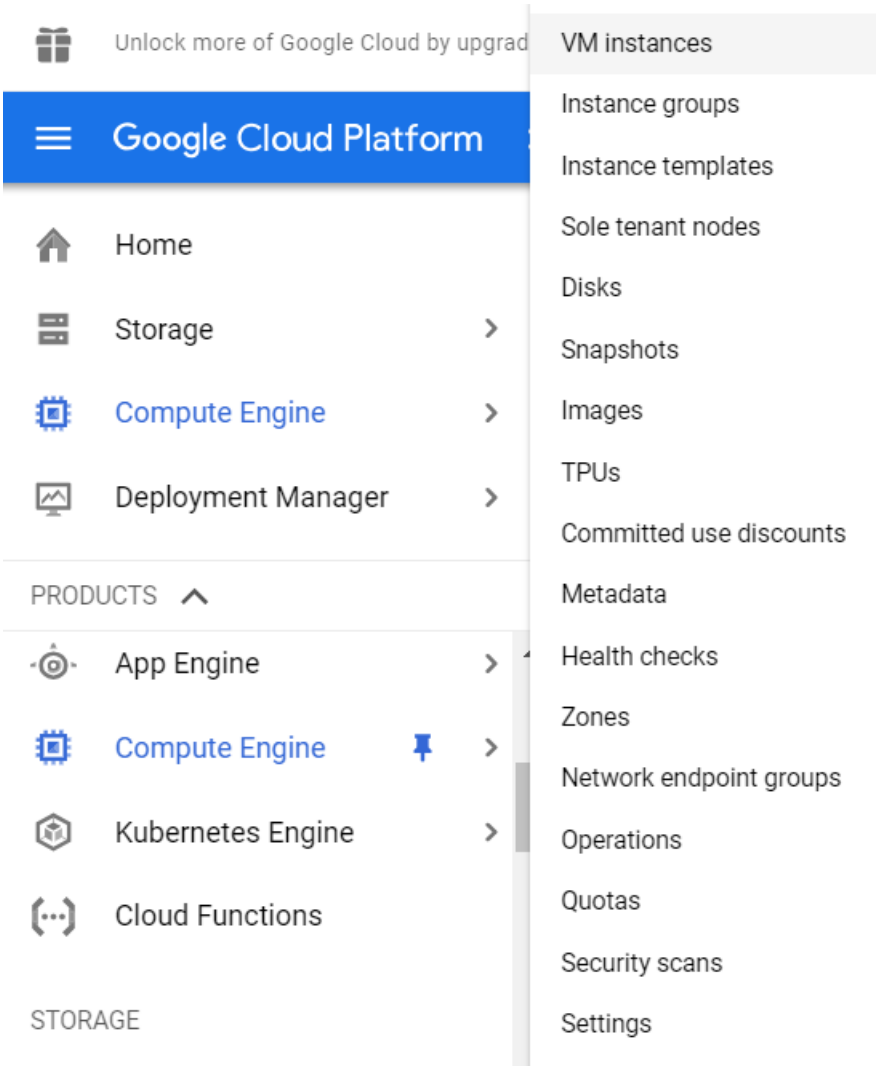
After a while, you will see that the database instance is ready. It generally takes few minutes so be patient. After the instance becomes

ready you will notice green tick mark in its name.

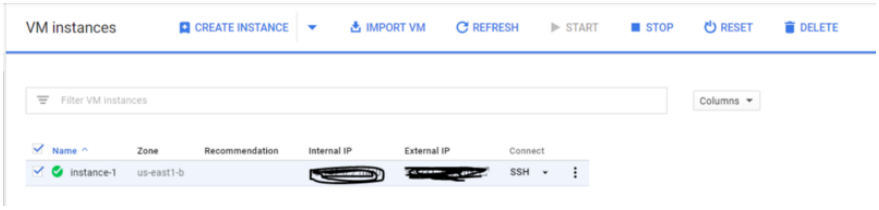


2. Setup Compute Instance

Goto cloud console, click on Compute engine and then VM Instances



The idea here is to create a simple Linux machine with the capabilities of MySQL client.



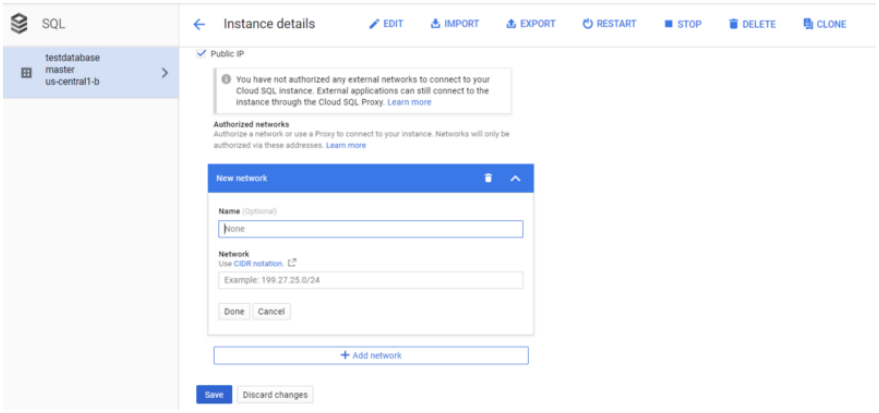
Now that we have both machines ready, we can now install SQL by giving following commands

```
sudo apt-get update
sudo apt-get install mysql-client
```

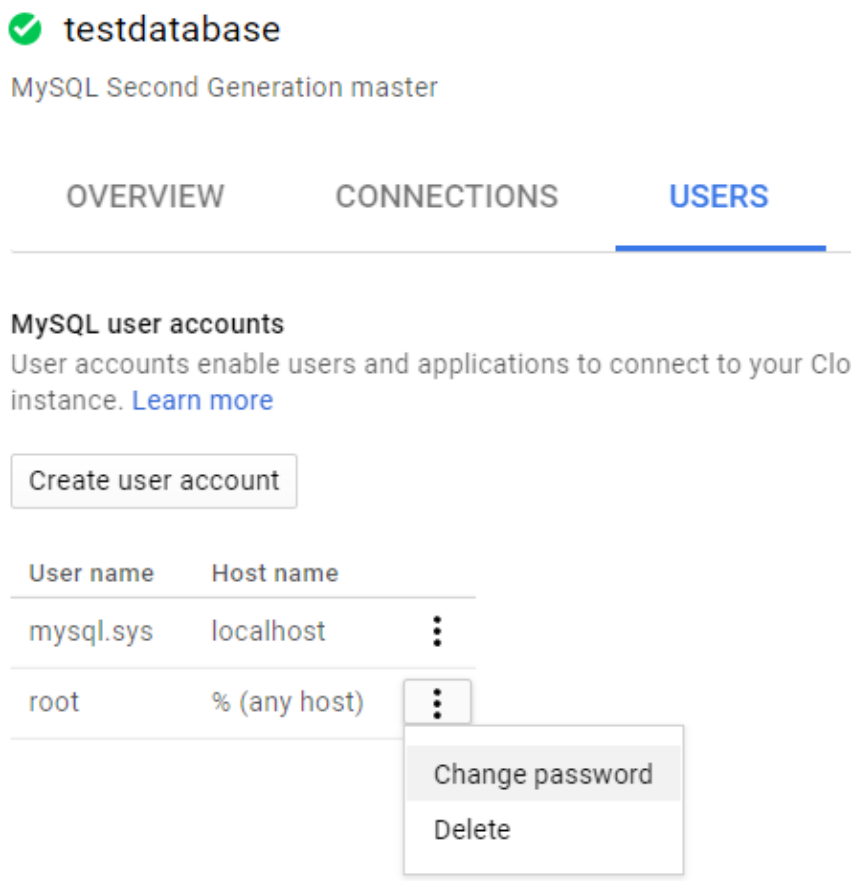
Now, both our machines are ready. Let's connect them.

3. Connect two instances

Firstly, go to compute instance and copy the public IP of the instance and paste that into SQL>connection>add network.



Now go to users and change the root password



After changing password head over to the compute instance and use the following command to connect to MySQL

```
# mysql -h (IP address of MySQL instance)-u root -p
```

Now you will see the screen as below which confirms that you have successfully setup database connection within the cloud

```
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 73
Server version: 5.7.14-google-log (Google)

Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and
others.
```

```
Type 'help;' or '\h' for help. Type '\c' to clear the
current input statement.


MySQL [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mydb               |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.03 sec)
```