Using Google Cloud SQL

Dang Thi Kim Giao

Outlines

Create Google Cloud SQL instances

Create a database on Google Cloud SQL instances

Connect Google Cloud SQL with MySQL Workbench

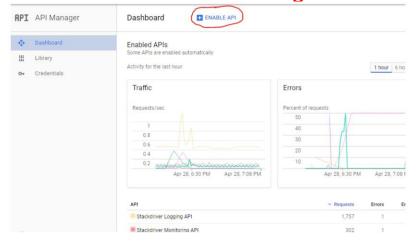
Create Google Cloud SQL instances

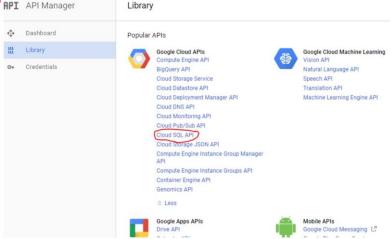
There are 2 version of Google Cloud SQL

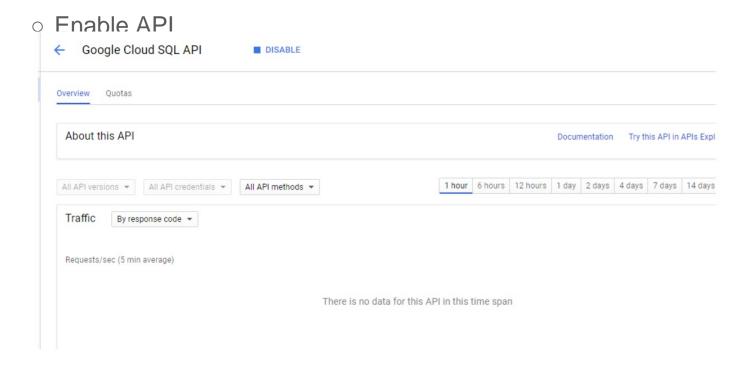
- first generation
- second generation (recommend)
 - high performance
 - high storage capacity
 - low cost

- Enter https://console.cloud.google.com
- Login to your account

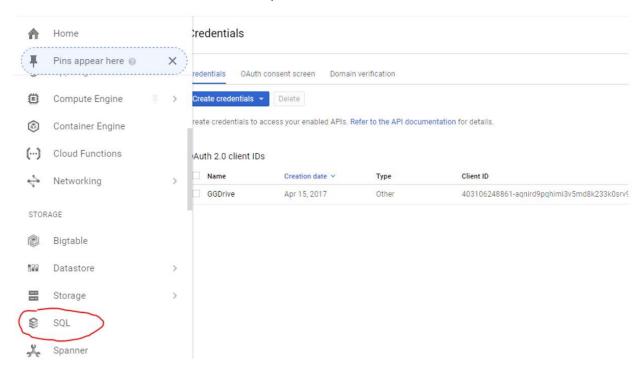
○ Select API Manager → Library → Cloud SOI API







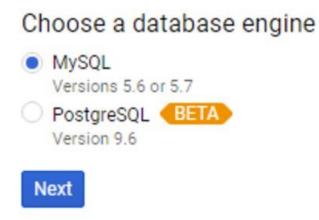
○ Back to Home → select SQL



Create new Instance



Select MySQL

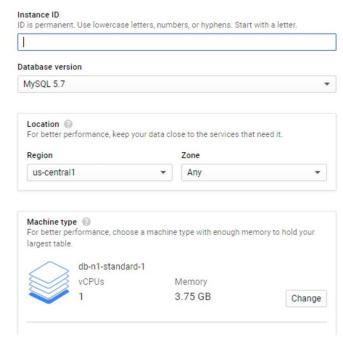


Choose Second Generation

MySQL Second Generation (Recommended) High performance, high storage capacity, low cost. • Up to 7X throughput and 20X storage capacity of First Generation • Less expensive than First Generation for most use cases • Option to add High Availability failover and read replication • Configurable backup period and maintenance window • Supports only MySQL 5.6 and 5.7 Choose Second Generation

MySQL First Generation (Legacy) Older version of Cloud SQL providing basic performance and storage capacity. Does not support MySQL 5.7. Choose First Generation

Fill instance name, password, location ...



Create a database on Google Cloud SQL instances

Using CLI

- type the command: gcloud beta sql connect mySQLinstance --user=root
 - mySQLinstance: instance name

```
Welcome to Cloud Shell! Type "help" to get started.
toloveru776l@projecttuan5:-$ gcloud beta sql connect nhoml2tuan9 --user=root
```

Create a database on Google Cloud SQL instances

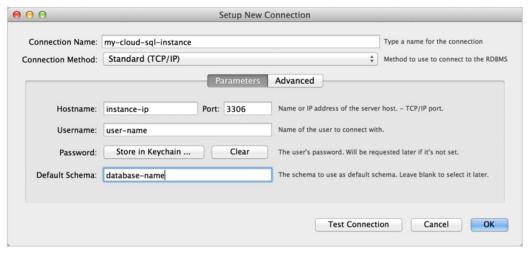
Using CLI

create your database by using SQL command as the below example

(you can paste these commands into CLI)

Connect Google Cloud SQL with MySQL Workbench

- 1. In the MySQL Workbench home view, click New Connection.
- 2. In the Setup New Connection window, provide a Connection Name, Hostname, Username, and Default Schema, if applicable, as shown below



Connecting with MySQL Workbench (cont.)

- 3. Click Test Connection. You will be prompted for a password.
- 4. Optionally, click Advanced, and fill in the information for connecting with SSL as shown in Figure 2. Be sure to select Use SSL if available and specify a SSL CA File

Connection Name: my-cloud-sql-instance Type a name for the connection Connection Method: Standard (TCP/IP) Method to use to connect to the RDBMS Parameters Use compression protocol. Select this option for WAN connections Use ANSI quotes to quote identifiers. If enabled this option overwrites the serverside settings. SOL MODE: Override the default SQL_MODE used by the server. ✓ Use SSL if available. This option turns on SSL encryption if the client library supports it. SSL CA File: /Users/a/certs/ca-cert.pem Path to Certificate Authority file for SSL. SSL CERT File: /Users/a/certs/client-cert.pem Path to Certificate file for SSL. SSL Key File: /Users/a/certs/client-key.pem Path to Key file for SSL. SSL Cipher: Optional list of permissible ciphers to use for SSL encryption Test Connection Cancel

Connecting with MySQL Workbench (cont.)

- 5. Click Test Connection to make sure all the advanced parameters are okay.
- 6. Click Close.
- 7. Connect with the connection you just created.

Now you can use MySQL workbench to manage your Google Cloud SQL instance.

Connecting with MySQL Workbench (cont.)

- 3. Click Test Connection. You will be prompted for a password.
- 4. Optionally, click Advanced, and fill in the information for connecting with SSL as shown in Figure 2. Be sure to select Use SSL if available and specify a SSL CA File

Connection Name: my-cloud-sql-instance Type a name for the connection Connection Method: Standard (TCP/IP) Method to use to connect to the RDBMS Parameters Use compression protocol. Select this option for WAN connections Use ANSI quotes to quote identifiers. If enabled this option overwrites the serverside settings. SOL MODE: Override the default SQL_MODE used by the server. ✓ Use SSL if available. This option turns on SSL encryption if the client library supports it. SSL CA File: /Users/a/certs/ca-cert.pem Path to Certificate Authority file for SSL. SSL CERT File: /Users/a/certs/client-cert.pem Path to Certificate file for SSL. SSL Key File: /Users/a/certs/client-key.pem Path to Key file for SSL. SSL Cipher: Optional list of permissible ciphers to use for SSL encryption Test Connection Cancel

Exercises

Practice in group:

- 1. Create an Google Cloud SQL instance and connect to your MySQL Workbench.
- 2. Document your work.
- 3. Remember to list some general errors that and your solutions in the document.