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

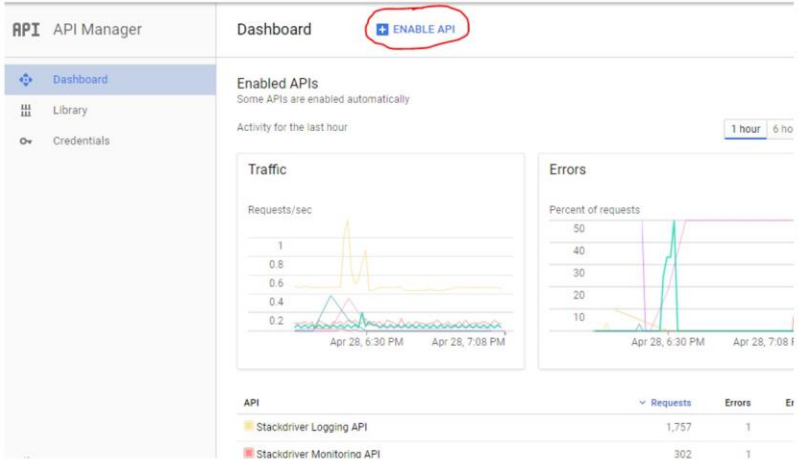
Create Google Cloud SQL instances

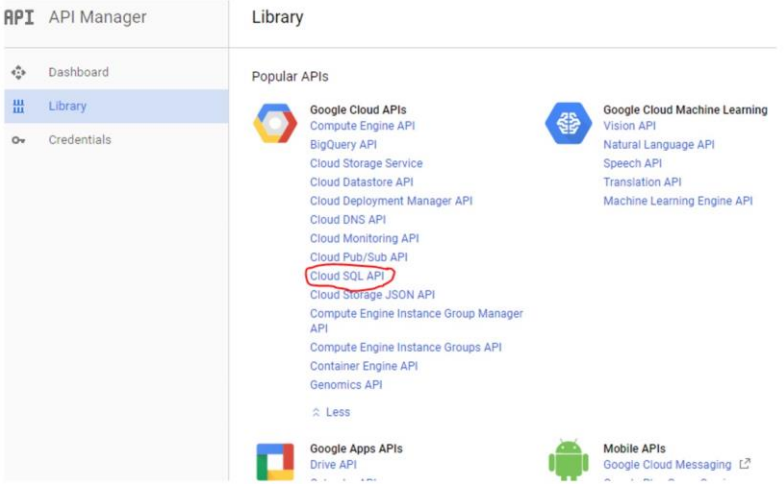
There are 2 version of Google Cloud SQL

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

Create Google Cloud SQL instances (cont.)

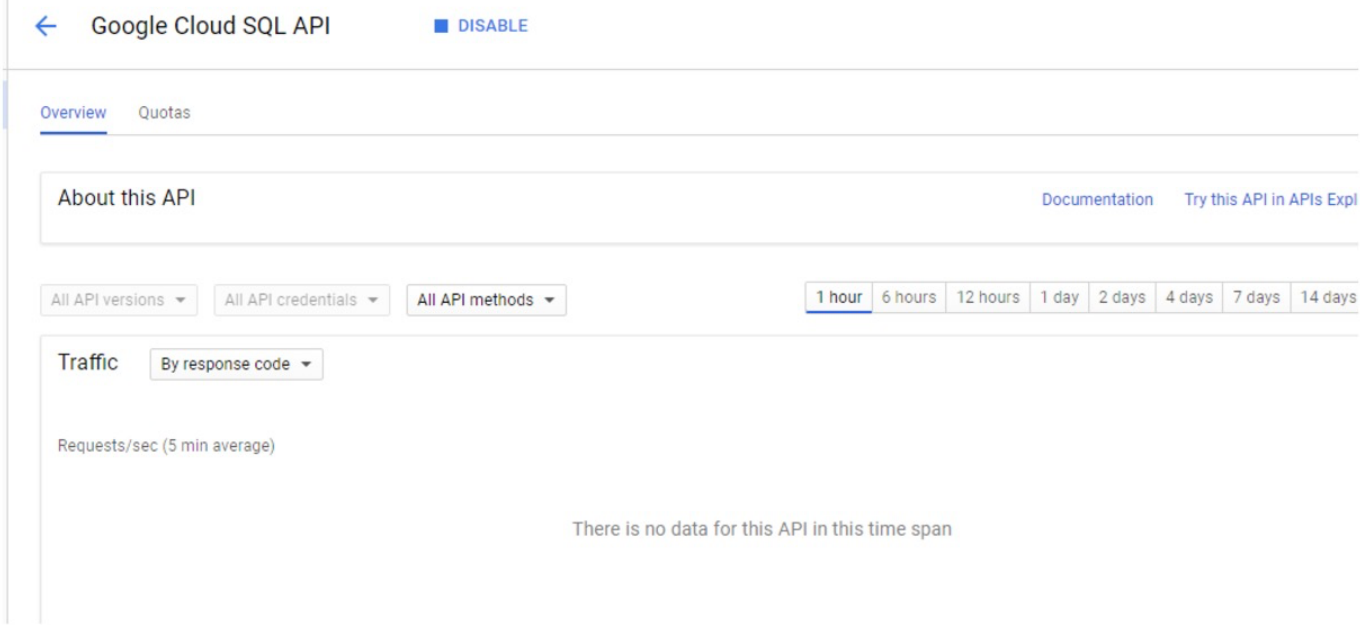
- Enter https://console.cloud.google.com
- Login to your account
- Select API Manager → Library → Cloud SQL API





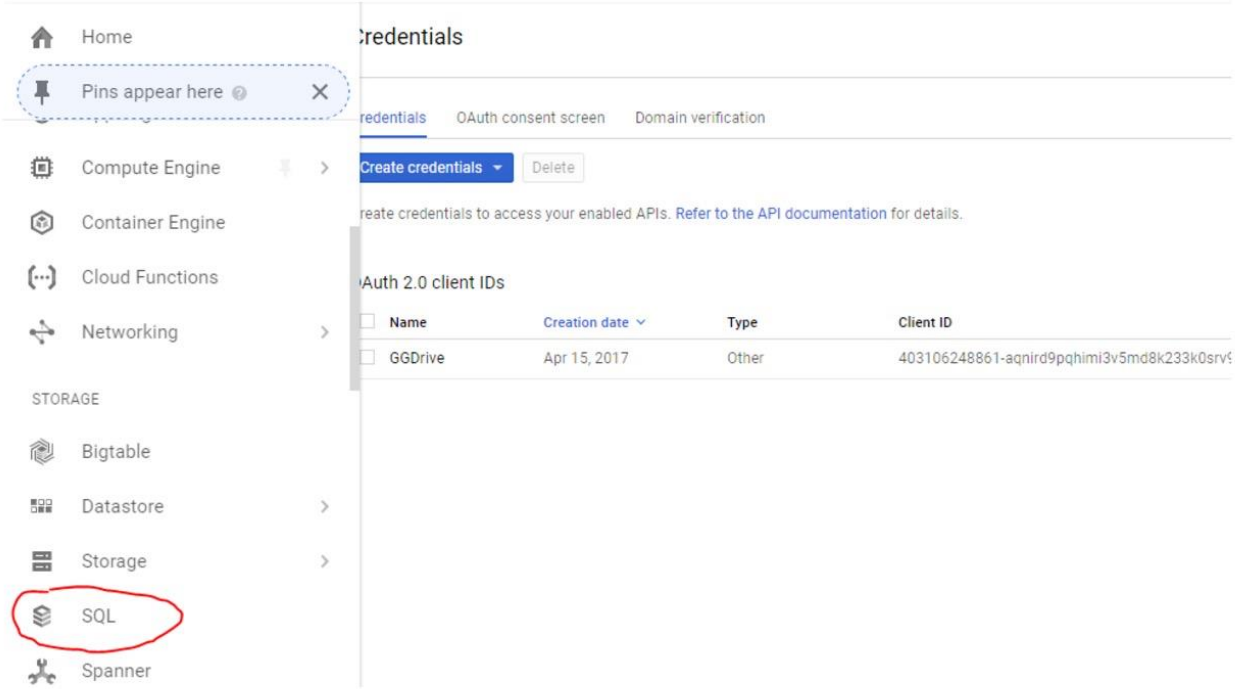
Create Google Cloud SQL instances (cont.)

- Enable API



Create Google Cloud SQL instances (cont.)

- Back to Home → select SQL

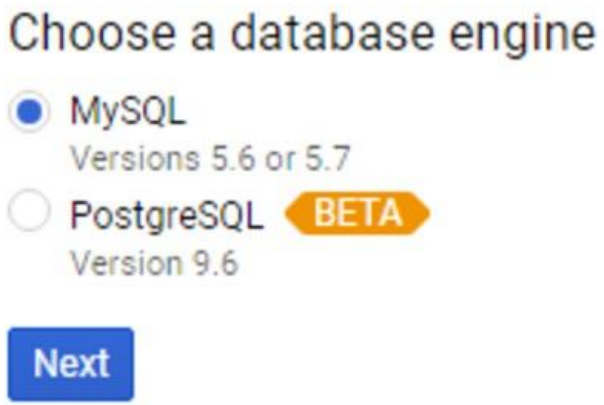


Create Google Cloud SQL instances (cont.)

- Create new Instance

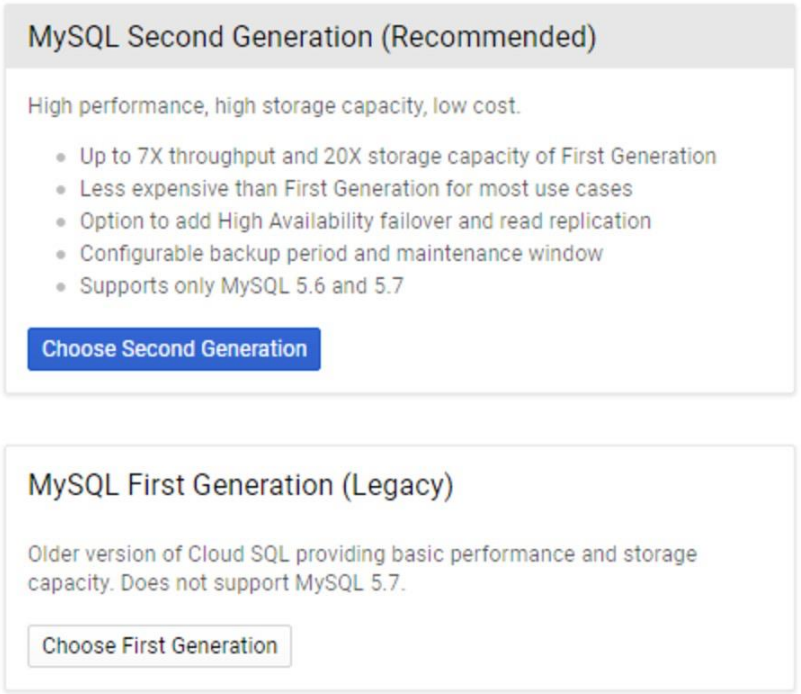
Create Google Cloud SQL instances (cont.)

- Select MySQL



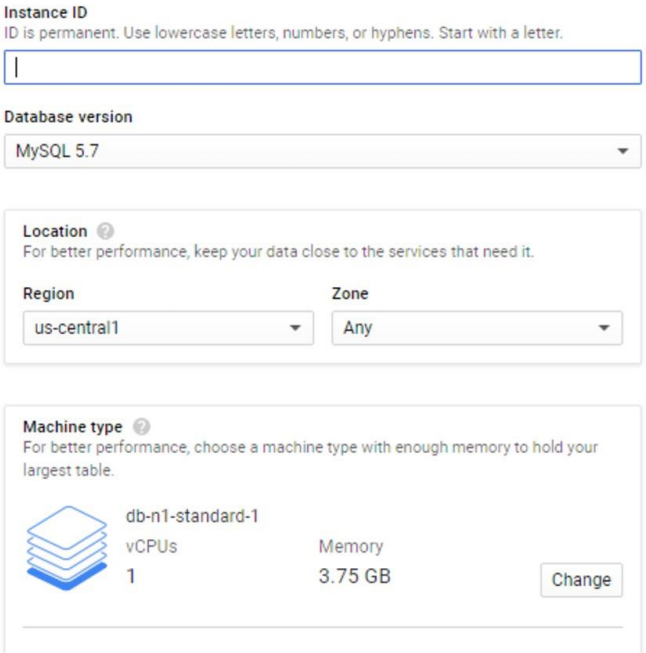
Create Google Cloud SQL instances (cont.)

- Choose Second Generation



Create Google Cloud SQL instances (cont.)

- 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

Create a database on Google Cloud SQL instances

Using CLI

- create your database by using SQL command as the below example

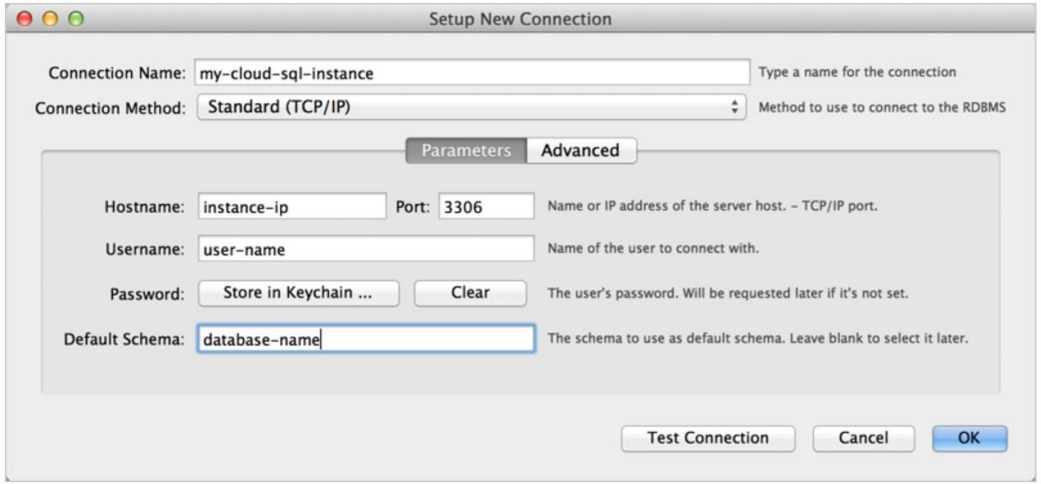
```
CREATE DATABASE `postnews` /*!40100 DEFAULT CHARACTER SET utf8 */;
use postnews;
CREATE TABLE `postnews`.`post` (
  `id` INT(10) NOT NULL AUTO_INCREMENT,
  `title` VARCHAR(200) NULL,
  `content` LONGTEXT NULL,
  `file` MEDIUMTEXT NULL,
  PRIMARY KEY (`id`));

```

(you can paste these commands into CLI)

Connect Google Cloud SQL with MySQL Workbench

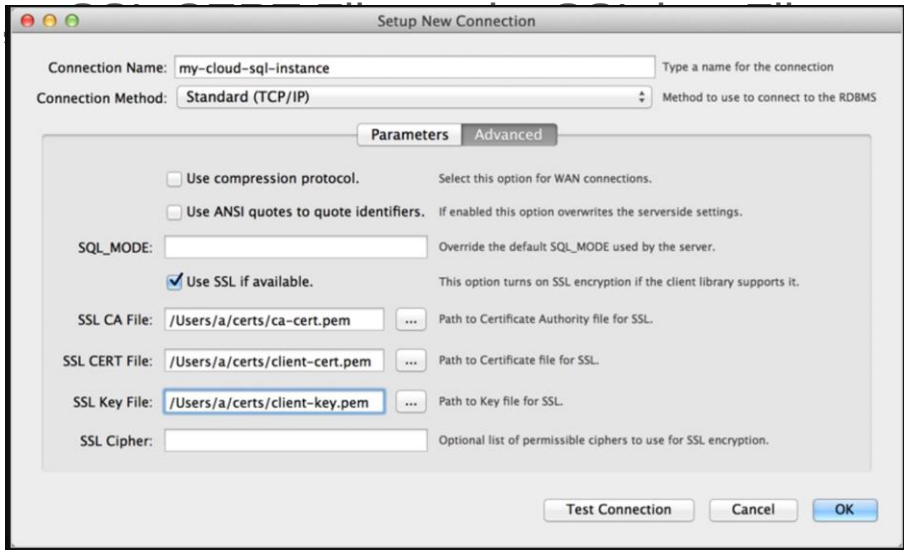
1. In the MySQL Workbench home view, click New Connection.
2. In the Setup New Connection window, provide a Connection Name, Hostname, Username, and Default Schema, if applicable, as shown below



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



Connecting with MySQL Workbench (cont.)

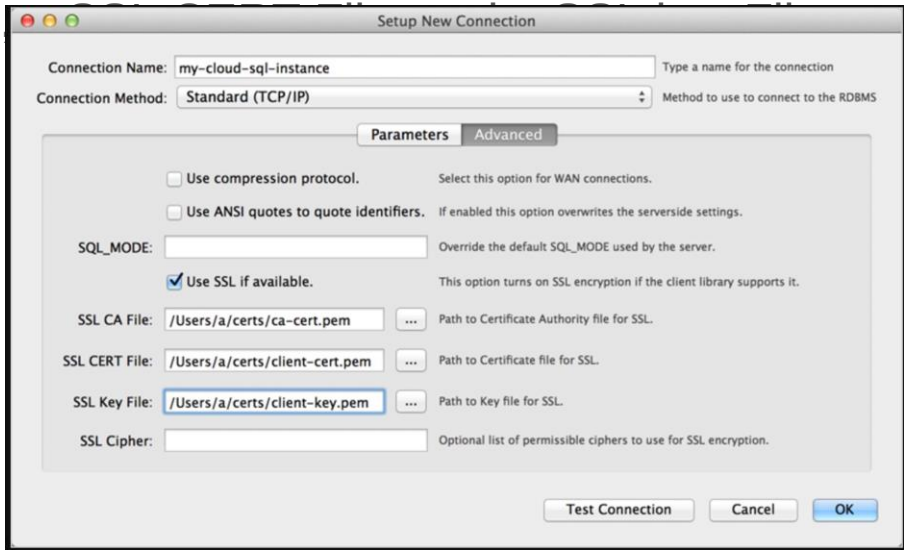
5. Click Test Connection to make sure all the advanced parameters are okay.
6. Click Close.
7. Connect with the connection you just created.

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



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.