

Creating a Remote Database using Google Cloud

Tools needed to complete this:

MySQL Workbench (latest version)
Google account

1. To get started, go to this website and create an account. You can use your personal google account or you can start a new account. <https://cloud.google.com>
2. Choose the free \$300 option this will give you credit towards the database
3. Follow the steps to create the account. You will have to input a credit or debit card, but for the terms of the remote database you will not have to charge anything to it.
4. After entering your info down, you will be presented the dashboard of your space. You can choose the name of your project by going up next to the *search products bar* and enter the new name you wish to give your project space.
5. Go to the navigation menu (three lines next to Google Cloud Platform name) and scroll down to the SQL tab.
6. Choose create instance to start building your remote database.
7. Choose the database engine of MySQL
8. Create a name and password for the database
9. Choose the latest version of MySQL (in this case it is MySQL 8.0 for this project)
10. Select the region in which is closest to your region. It will give some idea of what each region is located
11. Choose the *Multiple zones option*
12. Click on Customize your instance to give more info pertaining to your needs or specifications
13. For the most part keep everything the same as choosen as the default
14. Under Connections choose Public IP so others may have the ability to connect to your instance

15. In the same Connections tab, choose add network and give it a name and this CIDR numbration: 0.0.0.0/0. What this does is give a worldwide access to your instance to where anyone given the ip address and username and password can connect to it
16. Click Create after choosing desired settings. It will take roughly 8-10 minutes for the instance to be created.
17. Once it has finished loading click on the instance and navigate to the Users tab under Primary Instance on the left.
18. The root username should be here if not you can add a new user account under Add User Account.
19. On either the root user or the new user you created, click the 3 dots to the right of the name of the user and choose Change Password. Then change the password to your desired choice.
20. Navigate back to your instance by clicking the Overview tab.
21. Under Connect to this Instance you will find the Public IP address for your instance
22. Open up MySQL Workbench
23. Click the plus sign next to the words MySQL Connections
24. Here you will give a name to your connection as well as make the connection
25. Under Hostname insert the IP address of your instance, the Port by default should be 3306 for MySQL, the Username is the username you choose to use and the password is the one you changed to whatever you desired
26. Click Test Connection to ensure that a connection is formed, if it connects click ok.

Congratulations, you have now made a connection from MySQL workbench to your remote database.

- If it is not connecting properly use this website for any questions:

<https://cloud.google.com/sql/docs/mysql/admin-tools>

