<u>Cloud SQL</u> (https://cloud.google.com/sql/) <u>Documentation</u> (https://cloud.google.com/sql/docs/) <u>MySQL</u> (https://cloud.google.com/sql/docs/mysql/) <u>Guides</u>

Quickstart for using the proxy for local testing

MySQL | <u>PostgreSQL</u> (https://cloud.google.com/sql/docs/postgres/quickstart-proxy-test) | <u>SQL</u> <u>Server</u> (https://cloud.google.com/sql/docs/sqlserver/quickstart-proxy-test)

This page shows you how to connect to Cloud SQL from a local test environment using the Cloud SQL Proxy. Connecting through the proxy enables you to test an App Engine application in your local environment, or establish a secure connection for database administration.

Do not use these instructions to set up the proxy for a production environment. For more connection options, see <u>Connection Options for External Applications</u> (https://cloud.google.com/sql/docs/mysql/external-connection-methods).

Before you begin

Before performing the steps in this quickstart, you should complete the following tasks:

- Create a Google Cloud project and a <u>Second Generation instance</u> (https://cloud.google.com/sql/docs/mysql/create-instance).
- If you are using a pre-existing project, ensure that your Google Cloud user is an owner of your project, or has a Cloud SQL role other than Cloud SQL Viewer. Otherwise, you should set up the proxy using the instructions outlined in <u>Connecting using the Cloud SQL Proxy</u> (https://cloud.google.com/sql/docs/mysql/connect-admin-proxy).
- Optionally, install the mysql client.

The client enables you to test your connection to your instance. The mysql client can be installed with the server package. Some operating systems support a client-only package. See the MySQL installation instructions

(https://dev.mysql.com/doc/mysql-getting-started/en/#mysql-getting-started-installing).

Enable the Cloud SQL API

Enable the Cloud SQL Admin API.

ENABLE THE API (HTTPS://CONSOLE.CLOUD.GOOGLE.COM/FLOWS/ENABLEAPI?APIID=SQLADMIN&REDII

Install and authenticate the gcloud command-line tool

1. If you haven't already, install the gcloud command-line tool.

<u>See the gcloud installation instructions</u> (https://cloud.google.com/sdk/docs/#install_the_latest_cloud_sdk_version).

2. Initialize the gcloud tool:

gcloud init

3. Authenticate the gcloud tool:

gcloud auth login

Install the Cloud SQL Proxy client on your local machine

The proxy binary you download depends on your operating system, and whether it uses a 32-bit or 64-bit kernel. Most newer hardware uses a 64-bit kernel. If you are unsure whether your machine is running a 64-bit kernel, use the uname -a command for Linux or macOS, or click **Computer > Properties** in the Start Menu for Windows.

LINUX 64-BIT	LINUX 32-BIT	MORE -
1. Download the	e proxy:	
wget https	://dl.google.com/cloudsql/cloud_sql_proxy.linux.amd64	-0 cloud_sq1_
2. Make the pro	xy executable:	
chmod +x c	loud_sql_proxy	•● []

If your operating system isn't included here, you can also <u>compile the proxy from source</u> (http://github.com/GoogleCloudPlatform/cloudsql-proxy).

Get the instance connection name

1. Go to the Cloud SQL Instances page in the Google Cloud Console.

GO TO THE CLOUD SQL INSTANCES PAGE (HTTPS://CONSOLE.CLOUD.GOOGLE.COM/SQL/INSTANCI

- 2. Click the instance name to open its Instance details page.
- 3. Under Connect to this instance, note the Instance connection name.

You will use this value in the next step.

Start the proxy

Start the proxy in its own terminal so you can monitor its output. Replace <INSTANCE_CONNECTION_NAME> with the instance connection name you copied in the previous step.

```
./cloud_sql_proxy -instances=<INSTANCE_CONNECTION_NAME>=tcp:3306
```

You should see a message similar to:

```
Listening on 127.0.0.1:3306 for myproject:us-central1:myinstance".
Ready for new connections
```

Connect to your database using the mysql client

This section is optional, but is recommended for testing your connection. <u>See the MySQL</u> installation instructions

(https://dev.mysql.com/doc/mysql-getting-started/en/#mysql-getting-started-installing).

In a different terminal window from where you started the proxy, run the following command, replacing **<USERNAME>** with your MySQL username.

mysql -u <USERNAME> -p --host 127.0.0.1 --port 3306

∘● [[

You should see the mysql prompt. A message similar to the following should appear in the proxy terminal:

New connection for "myproject:us-central1:myinstance"

What's next

- <u>See troubleshooting information for the proxy</u> (https://cloud.google.com/sql/docs/mysql/sql-proxy#troubleshooting).
- Learn more about the proxy (https://cloud.google.com/sql/docs/mysql/sql-proxy).
- Learn more about other connection options (https://cloud.google.com/sql/docs/mysql/external-connection-methods).

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Last updated November 19, 2019.