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

Quickstart for using the proxy for local testing

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

Beta

This feature is in a pre-release state and might change or have limited support. For more information, see the <u>product launch stages</u> (https://cloud.google.com/products/#product-launch-stages).

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.

Before you begin

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

- Create a Google Cloud project and a <u>SQL Server instance</u> (https://cloud.google.com/sql/docs/sqlserver/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/sqlserver/connect-admin-proxy).
- Optionally, install a sqlcmd client.

The client could be <u>SQL Server Management Studio (SSMS)</u> (https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms? view=sql-server-2017)

, <u>Azure Data Studio</u>

(https://docs.microsoft.com/en-us/sql/azure-data-studio/download?view=sql-server-2017), or another client.

Enable the Cloud SQL API

Enable the Cloud SQL Admin API.

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

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

For installation, see <u>Installing the Cloud SQL Proxy</u> (https://cloud.google.com/sql/docs/sqlserver/sql-proxy#install).

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/INSTANC

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 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.

For Linux environments, use this command to launch the proxy:

./cloud_sql_proxy -instances= <instance_connection_name>=tcp:1433</instance_connection_name>	•●		
In PowerShell on Windows, use this command to launch the proxy:			
.\cloud_sql_proxy.exe -instances= <instance_connection_name>=tcp:1433</instance_connection_name>	•● []		
You should see a message similar to:			
Listening on 127.0.0.1:1433 for myproject:myregion:myinstance". Ready for new connections	•●		

Connect to your database using the sqlcmd client

This section is optional, but is recommended for testing your connection.

If you installed and configured a sqlcmd client, you can connect to your Cloud SQL instance at the IP address 127.0.0.1, which is routed through the proxy's secure connection to Cloud SQL.

When you connect to the Cloud SQL instance through the SQL Server client, a message similar to the following should appear in the proxy terminal:

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

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Then you can run queries and perform other operations.

What's next

- <u>See troubleshooting information for the proxy</u> (https://cloud.google.com/sql/docs/sqlserver/sql-proxy#troubleshooting).
- Learn more about the proxy (https://cloud.google.com/sql/docs/sqlserver/sql-proxy).

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Last updated November 19, 2019.