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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 (/sql/docs/postgres/external-connection-methods</u>).

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

- Create a Google Cloud project and a <u>PostgreSQL instance</u> (/sql/docs/postgres/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> (/sql/docs/postgres/connect-admin-proxy).
- Optionally, install the psql client.

The client enables you to test your connection to your instance. The psql client can be installed with the server package or alone. <u>See the PostgreSQL installation instructions</u> (https://www.postgresql.org/docs/9.6/static/install-procedure.html).

Enable the Cloud SQL Admin API.

Enable the API (https://console.cloud.google.com/flows/enableapi?apiid=sqladmin&redirect=https://console.cloud.google.com

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

See the gcloud installation instructions (/sdk/docs/#install_the_latest_cloud_sdk_version).

2. Initialize the gcloud tool:

3. Authenticate the gcloud tool:

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.

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

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/instances)

- 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.

You should see a message similar to:

This section is optional, but is recommended for testing your connection. <u>See the PostgreSQL installation</u> instructions (https://www.postgresql.org/docs/9.6/static/install-procedure.html).

In a different terminal window from where you started the proxy, run the following command, replacing <USERNAME> with your PostgreSQL username, and <DB_NAME> with the name of the database to connect to.

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

- See troubleshooting information for the proxy (/sql/docs/postgres/sql-proxy#troubleshooting).
- Learn more about the proxy (/sql/docs/postgres/sql-proxy).

• Learn more about other connection options (/sql/docs/postgres/external-connection-methods).