Development / ... / Database

Cloud SQL Proxy
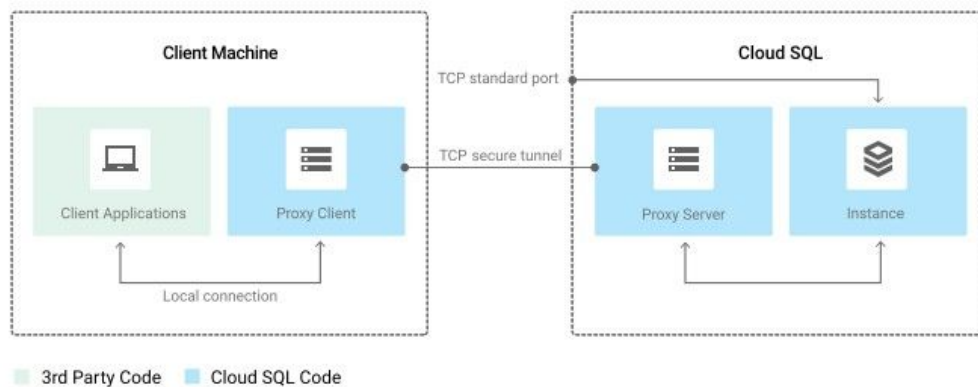
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Last updated: **Aug 19, 2021** by **Nishan Karunarathna (Deactivated)** • 2 min read
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In order to connect to the Google Cloud SQL DB (MySQL), we have to use the CLI tool called `cloud_sql_proxy` . Once connected to the proxy, we can use our favorite tools like MySQL Workbench or Datagrip, or any other MySQL compatible tool.

Proxy Installation

If you already have `gcloud` CLI tool simplest way to install Cloud SQL Proxy is through the "components" command

```
1   gcloud components install cloud_sql_proxy
```

Alternatively, follow official installation instructions for your OS

- Linux - https://cloud.google.com/sql/docs/mysql/quickstart-proxy-test#linux-64-bit
- macOS - https://cloud.google.com/sql/docs/mysql/quickstart-proxy-test#macos-64-bit

- Windows - https://cloud.google.com/sql/docs/mysql/quickstart-proxy-test#windows-64-bit

Google Cloud authentication credentials

The easiest way to authenticate with the proxy is by using `gcloud` CLI

- find detailed instruction on how to use gcloud in the official docs

```
1  gcloud init
```

Usage

Generic example

```
1  cloud_sql_proxy -instances=[project_id]:[gcp_zone]:[db_instance_name]=tcp:[por
```

Example proxy of staging MySQL

```
1  cloud_sql_proxy -instances=blissful-hash-265915:europe-west4-b:dealroom-core-s
```

The above command will proxy our staging DB instance with the name *dealroom-core-staging* to your localhost port *3307*. Keep this command running otherwise the proxy connection will close.

> ℹ️ Find the list of all instances in the GCP project blissful-hash-265915 (development instance) or galvanized-vent-297510 (production instances).
>
> **Pro tip:** Use `gcloud sql instances list` command to list instances in your command line

Connecting to instance

Once CloudSQL proxy is running, the MySQL client of choice can be used to connect to the instance.

Example MySQL CLI connection

```
1  mysql -u myInstanceUser -p --host 127.0.0.1  --port 3307
```

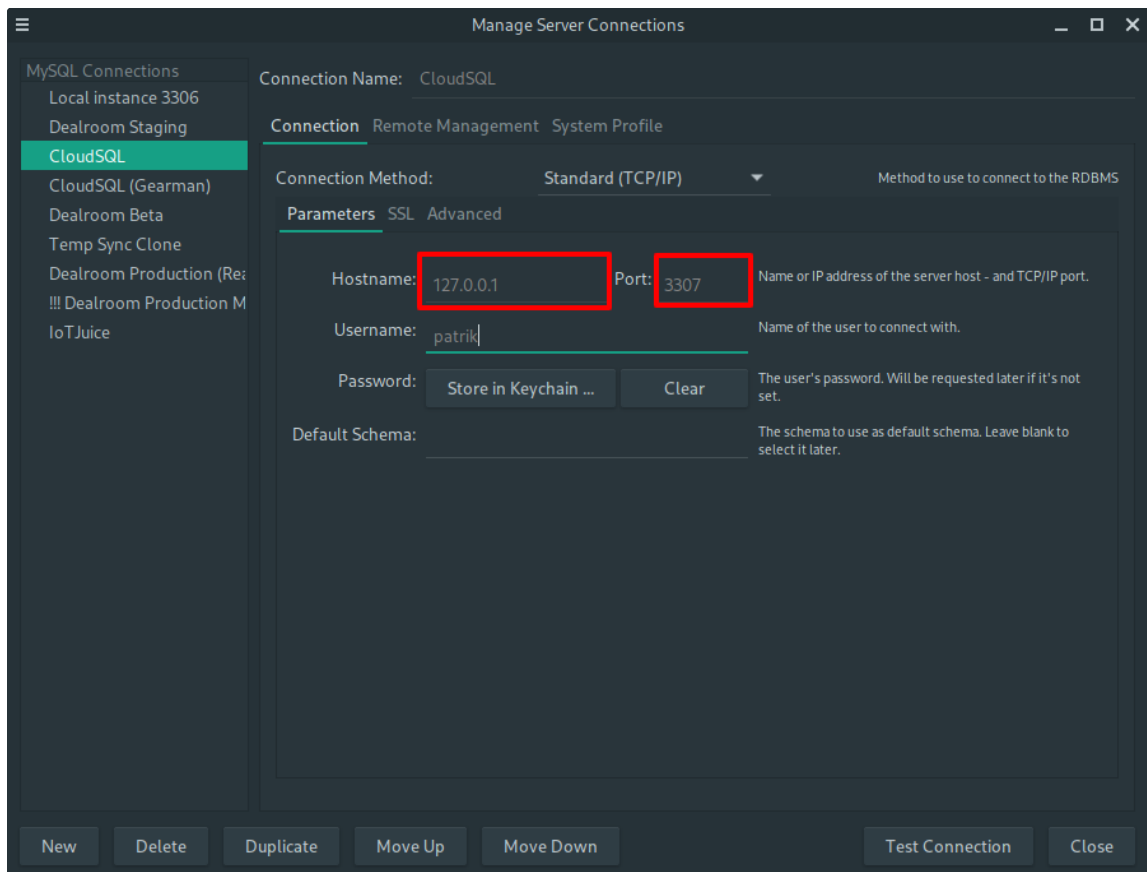## Example MySQL Workbench connection

Connection method: Standard (TCP / IP)

Hostname: 127.0.0.1

Port: 3307

Username: (get your personal credentials from @Patrik Fuhrmann)

Password: (get your personal credentials from @Patrik Fuhrmann)

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