


Create a Google Cloud SQL Instance

Google Cloud SQL offers a managed database service that supports PostgreSQL, MySQL, and SQL Server.


We will configure a Cloud SQL instance, create a database in it and load the table with the data we have stored in the Google Cloud Storage.


Create Instance and select MySQL


 SQL

[←](#) Create an instance

Choose your database engine

**MySQL**
Versions: 8.0, 5.7, 5.6
[Choose MySQL](#)

**PostgreSQL**
Versions: 14, 13, 12, 11, 10, 9.6
[Choose PostgreSQL](#)

**SQL Server**
Versions: 2019, 2017
[Choose SQL Server](#)

[←](#) Create a MySQL instance

[Back to previous page](#)

Instance info


Instance ID *

forumdb

Use lowercase letters, numbers, and hyphens. Start with a letter.

Password *

•••••

 [GENERATE](#)

☐ No password

[✓ PASSWORD POLICY](#)

Database version *

MySQL 8.0

▼




Choose a configuration to start with

These suggested configurations will pre-fill this form as a starting point for creating an instance. You can customize as needed later.

☐ Production
Optimized for the most critical workloads. Highly available, performant, and durable.

☒ Development

Summary

Region	us-central1 (Iowa)
DB Version	MySQL 8.0
vCPUs	2 vCPU
Memory	8 GB
Storage	100 GB
Network throughput (MB/s) 	500 of 2,000
Disk throughput (MB/s) 	Read: 48.0 of 240.0 Write: 48.0 of 144.0
IOPS 	Read: 3,000 of 15,000 Write: 3,000 of 9,000
Connections	Public IP
Backup	Automated
Availability	Single zone
Point-in-time recovery	Enabled

Customize your instance

You can also customize instance configurations later

Machine type

Machine Type

Choose a preset or customize your own. For better performance, choose a machine type with enough memory to hold your largest table.

Lightweight

- ☒ 1 vCPU, 3.75 GB
- ☐ 2 vCPU, 3.75 GB
- ☐ 4 vCPU, 3.75 GB
- ☐ Custom

Storage

Storage type is SSD. Storage size is 100 GB, and will automatically scale as needed.
Google-managed key enabled (most common).

Connections

Public IP enabled

Next creating the VM instance:

Compute Engine

Virtual machines

VM instances

Instance templates

Sole-tenant nodes

Machine images

TPUs

Committed use discounts

VM instances

CREATE INSTANCE

IMPORT VM

REFRESH

INSTANCES

INSTANCE SCHEDULES

VM instances are highly configurable virtual machines for running workloads on Google infrastructure. [Learn more](#)

Filter Enter property name or value

	Status	Name	Zone	Recommendations	In use by	Internal IP
<input type="checkbox"/>	<input checked="" type="checkbox"/>	mysql-client	us-central1-a			10.128.0.10 (nic0)

Create the service account key to connect the cloud sql instance from SSH in the compute instance.

<input type="checkbox"/>	forumdb-access@creating-a-g-225-820df015.iam.gserviceaccount.com	<input checked="" type="checkbox"/>	forumdb-access	forumdb-access	149f58b7a6320271a2a0ec06327f2708b8d09672	Oct 2, 2022	⋮
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We will upload the json key in the vm account and configure the mysql client and Cloud SQL Proxy.

VM Instance → SSH → upload the json key

Setting up the connection between Cloud SQL instance and VM instance with:

```
./cloud_sql_proxy -instances=<Cloud SQL Instance connection name>=tcp:3306 -credential_file=./<the json key file>.json &
```

Next configure the MySQL client and Cloud SQL Proxy:

- Update packages on the VM with ***sudo apt-get -y update***
- Install the mysql client with ***sudo apt-get -y install default-mysql-client***
- Download the Cloud SQL Proxy from Google: ***curl -o cloud_sql_proxy***
https://dl.google.com/cloudsql/cloud_sql_proxy.linux.amd64
- Make the file executable: ***chmod +x ./cloud_sql_proxy***

From APIs and Services, enable Google Cloud SQL Admin API

Connect to the Cloud SQL instance from ssh window with ***mysql -u root -p --host 127.0.0.1***

Create a database called insurancedb from within the mysql client:

```
CREATE DATABASE insurancedb;
```

```
USE insurancedb;
```

Create table Persons as shown below:

```
MySQL [insurancedb]> CREATE TABLE Persons (
->   PersonID int,
->   LastName varchar(255),
->   FirstName varchar(255),
->   Address varchar(255),
->   City varchar(255)
-> );
Query OK, 0 rows affected (0.040 sec)

MySQL [insurancedb]> show tables;
+-----+
| Tables_in_insurancedb |
+-----+
| Persons                |
+-----+
```

Insert data into tables with:

```
INSERT INTO Persons (PersonID, LastName, FirstName, Address, City)
```

```
VALUES (100, 'Skagen 21', 'Stavanger', '207 street', 'New York');
```