

[Cloud SQL](https://cloud.google.com/sql/) (<https://cloud.google.com/sql/>)

[Documentation](https://cloud.google.com/sql/docs/) (<https://cloud.google.com/sql/docs/>)

[MySQL](https://cloud.google.com/sql/docs/mysql/) (<https://cloud.google.com/sql/docs/mysql/>) [Guides](#)

Concepts

Cloud SQL features

A list of the major features and capabilities of Cloud SQL.

(<https://cloud.google.com/sql/docs/mysql/features>)

Instance settings

A description of instance settings, including when you can change them and how changing them affects instance behavior.

(<https://cloud.google.com/sql/docs/mysql/instance-settings>)

Instance locations

A description of regions, zones, and preferred location and how these values impact Cloud SQL instances.

(<https://cloud.google.com/sql/docs/mysql/locations>)

Instance access control

A discussion of the two levels of access and how you configure them: instance-level access and database access.

(<https://cloud.google.com/sql/docs/mysql/instance-access-control>)

Project access control

How Cloud SQL uses roles to manage access to project resources.

(<https://cloud.google.com/sql/docs/mysql/project-access-control>)

Customer-managed encryption keys

How customer-managed encryption keys works with Cloud SQL.

(<https://cloud.google.com/sql/docs/mysql/cmek>)

MySQL users

Describes how MySQL users are used with Cloud SQL.

(<https://cloud.google.com/sql/docs/mysql/users>)

Private IP

Describes how private IP works with Cloud SQL instances.

(<https://cloud.google.com/sql/docs/mysql/private-ip>)

Connection organization policies

Describes how to use the connection organization policies on a project.

(<https://cloud.google.com/sql/docs/mysql/connection-org-policy>)

Connection options for external applications

An overview of the ways you can configure access from an external application, including MySQL Client, to a Cloud SQL instance.

(<https://cloud.google.com/sql/docs/mysql/external-connection-methods>)

About the proxy

A description of the Cloud SQL Proxy, including advanced options.

(<https://cloud.google.com/sql/docs/mysql/sql-proxy>)

Overview of the high availability configuration

A description of the high availability configuration for Second Generation instances.

(<https://cloud.google.com/sql/docs/mysql/high-availability>)

Replication options

Describes the types of replication supported by Cloud SQL.

(<https://cloud.google.com/sql/docs/mysql/replication/>)

Requirements and tips for configuring replication

Describes requirements and best practices for configuring replication.

(<https://cloud.google.com/sql/docs/mysql/replication/tips>)

About replicating from an external server

Describes requirements and options for replicating from an external server to a Second Generation replica.

(<https://cloud.google.com/sql/docs/mysql/replication/external-server>)

Overview of backups

A description of backups and the backup process and requirements.

(<https://cloud.google.com/sql/docs/mysql/backup-recovery/backups>)

Overview of restoring an instance

A description of restoring an instance from a backup and point-in-time recovery.

(<https://cloud.google.com/sql/docs/mysql/backup-recovery/restore>)

Best practices for importing and exporting Data

Describes some best practices for importing and exporting data.

(<https://cloud.google.com/sql/docs/mysql/import-export/>)

Second Generation capabilities

A description of the advantages of using Cloud SQL Second Generation, as well as list of differences between Cloud SQL Second Generation and Cloud SQL First Generation.

(<https://cloud.google.com/sql/docs/mysql/1st-2nd-gen-differences>)

Overview of maintenance on Cloud SQL instances

An overview of how maintenance is performed on Cloud SQL instances, and your options for learning about and configuring maintenance windows.

(<https://cloud.google.com/sql/docs/mysql/maintenance>)

Diagnosing issues

Troubleshooting information for Cloud SQL instances, including connection, performance, and general instance issues.

(<https://cloud.google.com/sql/docs/mysql/diagnose-issues>)

Launch checklist

A checklist to help you design, test, and launch your application.

(<https://cloud.google.com/sql/docs/mysql/launch-checklist>)

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