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

Enabling and disabling high availability on an instance

MySQL (https://cloud.google.com/sql/docs/mysql/configure-ha) | PostgreSQL
(https://cloud.google.com/sql/docs/postgres/configure-ha) | **SQL Server**

Beta

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

This page describes how to configure a SQL Server instance for high availability.

You can configure an instance for high availability when you create the instance, or you can
enable high availability on an existing instance.

For more information about the high availability configuration, see Overview of the High
Availability Configuration (https://cloud.google.com/sql/docs/sqlserver/high-availability).

Creating a new instance configured for high availability

When you create an instance, and you configure it for high availability, Cloud SQL creates the
instance as a regional instance.

To create an instance configured for high availability:

CONSOLE   **GCLOUD**   **CURL**

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/INSTAN...

2. Create an instance.

3. On the **Instance ID** page, select **Show configuration options**.

4. Open **Auto backups and high availability**.

5. Select the **High availability (regional)** checkbox.

⭐   Leave the **Automate backups** and **Enable binary logging** checkboxes enabled.

For more details about creating an instance, see Creating Instances
 (https://cloud.google.com/sql/docs/sqlserver/create-instance).

Configuring an existing instance for high availability

Configuring an existing instance for high availability causes a few minutes of downtime while the instance is reconfigured.

To configure an existing instance for high availability:

CONSOLE   GCLOUD   CURL

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To configure an existing instance for high availability:

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 **Overview** page and click **Edit** in the button bar.

3. Under the **Auto backups and high availability** configuration option section, select the **High availability (regional)** checkbox.

4. Click **Save**.

   You are returned to the instance page for the master while the instance is updated.

Initiating failover

Testing failover is optional, but is recommended so that you can see how your application responds in the event of a failover.

Note: This feature helps you test your application's response to an automatic failover. Make sure your instance has completed any previous failover (so it is responding to connection requests) before you trigger another failover.

To learn more about failovers, see the Failover overview (https://cloud.google.com/sql/docs/sqlserver/high-availability#failover-overview).

CONSOLE   GCLOUD   CURL

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/INSTAN
2. Click the master instance name to open its **Instance details** page.
3. Click **Failover** in the button bar.

The instance fails over and is not available to serve data for a few minutes.

Verifying an instance has high availability

To verify an instance has high availability:

CONSOLE   GCLOUD   CURL

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/INSTAN
2. Click an instance name to open its **Instance details** page.
3. Under **Configuration**, it shows **Highly available (regional)**.

Disabling high availability on an instance

Before you perform this procedure, make sure there are no operations currently running on the instance.

To disable high availability:

CONSOLE   GCLOUD   CURL

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/INSTAN(

2. Select the instance you want to disable high availability on.

3. On the **Instance details** page, click **EDIT**.

4. Open **Auto backups**.

5. Under **Availability** click **Single zone**.

6. Click **Save**. This edit requires a restart of the instance.

7. When you see the message box, click **SAVE AND RESTART**.

What's next

- Learn more about how the high availability configuration works
  (https://cloud.google.com/sql/docs/sqlserver/high-availability).

- Test how your application responds to lost connections by restarting your instance
  (https://cloud.google.com/sql/docs/sqlserver/start-stop-restart-instance).

- Learn more about managing your database connections
  (https://cloud.google.com/sql/faq#connections).

- Learn more about Stackdriver Monitoring (https://cloud.google.com/monitoring/docs/).

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