Cloud SQL   (https://cloud.google.com/sql/)
Documentation   (https://cloud.google.com/sql/docs/)
MySQL   (https://cloud.google.com/sql/docs/mysql/) Guides

Creating and managing on-demand and automatic backups

MySQL | PostgreSQL (https://cloud.google.com/sql/docs/postgres/backup-recovery/backing-up) |
SQL Server (https://cloud.google.com/sql/docs/sqlserver/backup-recovery/backing-up)

Warning: All data on an instance, including backups, is permanently lost when that instance is deleted. To
preserve your data, export it to Cloud Storage
(https://cloud.google.com/sql/docs/mysql/import-export/exporting) before you delete it.

This page describes how to schedule and disable automatic backups, create and manage on-
demand backups, and view backups for your Cloud SQL instance.

For more information about how backups work, see Overview of backups
(https://cloud.google.com/sql/docs/mysql/backup-recovery/backups).

Creating an on-demand backup

Note: On-demand backups are available only for Second Generation instances.

To create an on-demand backup:

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 instance to open its Overview page.

3. Click the **Backups** tab.

4. Click **Create backup**.

5. On the **Create backup** page, add a description, if needed, and click **Create**.

Scheduling automated backups

To schedule automated backups for an instance:

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/INSTANC

2. Select the instance for which you want to configure backups.

3. Click **Edit**.

4. In the **Auto backups** section, select **Automate backups**, and choose a backup window.

5. Click **Save**.

Disabling automated backups

To disable automated backups for an instance:

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/INSTANC

2. Select the instance for which you want to disable backups.

3. Click **Edit**.

4. In the **Auto backups** section, uncheck **Automate backups**.

5. Click **Save**.

Setting and viewing a custom location for backups

Currently, you can only use the API to set custom locations for backups.

Note: Backups fail if they are in a region the organization policy does not allow. Backups taken in the same region as the instance always succeed, regardless of the organization policy or other constraints.

To set the backup location for *automated* backups for an existing instance, use the instances
settings.backupConfiguration.location
(https://cloud.google.com/sql/docs/mysql/admin-api/v1beta4/instances) parameter:

```
gcloud auth login
ACCESS_TOKEN="$(gcloud auth print-access-token)"
curl --header "Authorization: Bearer ${ACCESS_TOKEN}" \
     --header 'Content-Type: application/json' \
     --data '{"name":"[INSTANCE_NAME]", "region":"[REGION]",
             "settings": {"backupConfiguration":
             {"binaryLogEnabled":true, "enabled":true, "location": "[BACKUP_REGION
     -X PATCH \
     https://www.googleapis.com/sql/v1beta4/projects/[PROJECT-ID]/instances
```

To set the backup location for *on-demand* backups, use the backupRuns location
(https://cloud.google.com/sql/docs/postgres/admin-api/v1beta4/backupRuns) parameter:

```
gcloud auth login
ACCESS_TOKEN="$(gcloud auth print-access-token)"
curl --header "Authorization: Bearer ${ACCESS_TOKEN}" \
     --header 'Content-Type: application/json' \
     --data '{"location":  "[PATH]"}' \
     -X POST \
     https://www.googleapis.com/sql/v1beta4/projects/[PROJECT-ID]/instances/[INSTANC
```

To see the locations of the backups taken for an instance, use backupRuns:

```
gcloud auth login
ACCESS_TOKEN="$(gcloud auth print-access-token)"
curl --header "Authorization: Bearer ${ACCESS_TOKEN}" \
     --header 'Content-Type: application/json' \
     -X GET \
     https://www.googleapis.com/sql/v1beta4/projects/[PROJECT-ID]/instances/[INSTANC
```

In the previous examples:

- REGION is the region for the original instance.

- **BACKUP_REGION** is the region where you want Cloud SQL to store the backup. For a
  complete list of valid region values, see the Instance locations
  (https://cloud.google.com/sql/docs/postgres/instance-locations).

Viewing backups

The Cloud Console does not show skipped or failed backups in the backup history. To see
skipped backups, use the gcloud command line tool or the API.

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 instance to open its Overview page.

3. To view the recent backups, see the Operations page.

Deleting a backup

You can delete automated and on-demand backups.

For Second Generation instances, deleting a backup might not free up as much space as the
size of the backup. This is because Second Generation backups are incremental, so deleting an
older backup might transfer some of its contents to a more recent backup to preserve the
integrity of the newer backup.

CONSOLE (2ND GEN)	MORE ▾

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 instance to open its Overview page.

3. Click the **Backups** tab.
   The list of existing backups is displayed.

4. Click more actions ⋮ for the backup you want to delete.

5. Select **Delete**.

6. In the Delete backup window, type `Delete` into the text box and click **Delete**.

What's next

- Learn more about backing up your data
  (https://cloud.google.com/sql/docs/mysql/backup-recovery/backups).

- Learn more about restoring and point-in-time recovery
  (https://cloud.google.com/sql/docs/mysql/backup-recovery/restore).

- See how to restore your data from a backup
  (https://cloud.google.com/sql/docs/mysql/backup-recovery/restoring#restorebackups).

- See how to perform a point-in-time recovery
  (https://cloud.google.com/sql/docs/mysql/backup-recovery/restoring#pitr).