

[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](#)

Cloning instances

MySQL | [PostgreSQL](https://cloud.google.com/sql/docs/postgres/clone-instance) (<https://cloud.google.com/sql/docs/postgres/clone-instance>) | [SQL Server](#)

This page describes how to clone a Cloud SQL instance.

When you clone a Cloud SQL instance, you create a new instance that is a copy of the source instance, but completely independent. After the cloning operation is complete, changes to the source instance are not reflected in the clone, and vice versa.

The source instance configuration (activation policy, database flags, connectivity, and so on) is copied to the clone. Instance IP addresses and replicas are not copied; you must configure these items explicitly on the clone. Cloning an instance does not clone any existing backups.

You cannot clone a replica. You can clone an instance that was cloned from another instance.

You can clone an instance from an earlier point in time, which helps you recover your database from a destructive event. For more information, see [Performing a point-in-time recovery](https://cloud.google.com/sql/docs/mysql/backup-recovery/restoring#pitr) (<https://cloud.google.com/sql/docs/mysql/backup-recovery/restoring#pitr>).

Cloning a Second Generation instance

CONSOLE

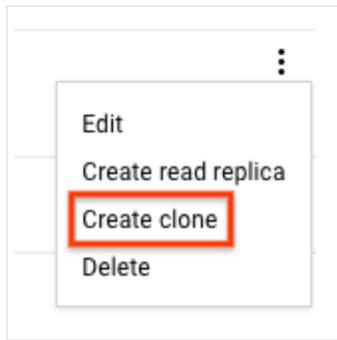
G CLOUD

CURL

1. Go to the Cloud SQL Instances page in the Google Cloud Console.

[GO TO THE CLOUD SQL INSTANCES PAGE \(HTTPS://CONSOLE.CLOUD.GOOGLE.COM/SQL/INSTANCES\)](https://console.cloud.google.com/sql/instances)

2. Find the instance you want to clone, and open its **more actions** menu at the far right of its listing.



3. Click **Create clone**.
4. In the **Create clone** page, update the instance ID if needed, and click **Create clone**, leaving **Clone latest state of instance** selected.

You are returned to the instance listing page while the clone initializes.

Cloning a First Generation instance

Note: Second Generation is replacing First Generation; support for First Generation instances ends January 30, 2020. To upgrade a First Generation instance to Second Generation, see [Upgrading a First Generation Instance to Second Generation](https://cloud.google.com/sql/docs/mysql/upgrade-2nd-gen) (<https://cloud.google.com/sql/docs/mysql/upgrade-2nd-gen>).

CONSOLE

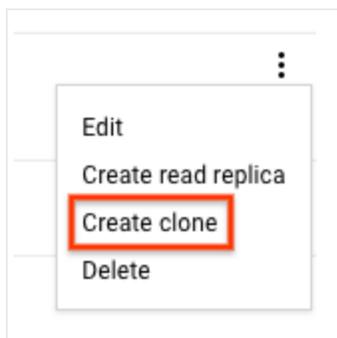
G CLOUD

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/INSTANCES](https://console.cloud.google.com/sql/instances))

2. Find the First Generation instance you want to clone, and open its **more actions** menu at the far right of its listing.



3. Select **Create clone**.

- If you do not have backups and binary logging enabled for the instance, enable them now and click **Continue**, then **Wait for backup**. After the backup window, restart this task from the beginning to create the clone.

★ **Note:** Enabling binary logging on an existing instance causes the instance to be restarted. Existing database connections are lost and must be reopened.

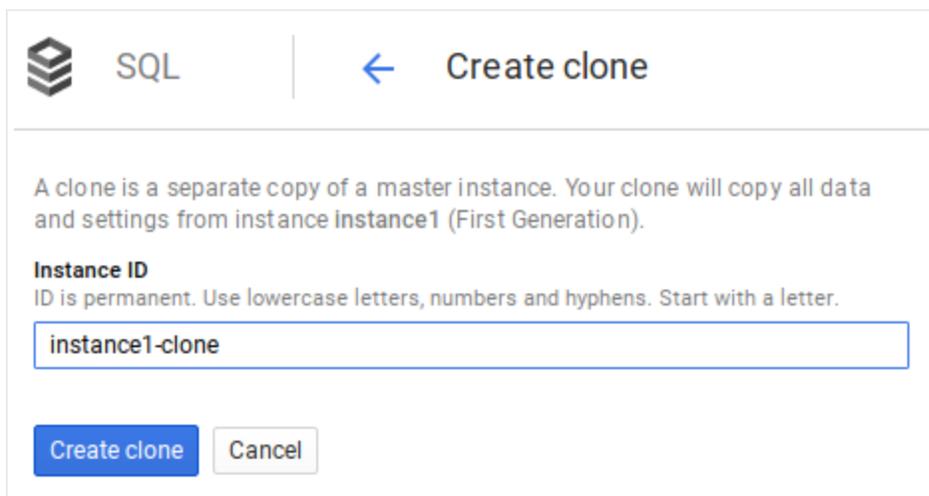
SQL | ← Create clone

A clone is a separate copy of a master instance. Your clone will copy all data and settings from instance `myinstance1` (First Generation).

- 1 Enable binary logging for master instance** ▲
Before you can clone your instance, you must first enable binary logging and wait for the next daily backup to complete.
Backups and binary logging
Both options add a small performance cost.
 Enable daily backups
7:00 PM – 11:00 PM
Backup jobs will start within the above window, shown in your local time zone (UTC-7). May continue outside the window until complete.
 Enable binary logging (for point-in-time recovery and replication)
Continue
- 2 Wait for next daily backup** ▼

Cancel

- When you see the **Create clone** page with the ability to update the instance ID, do so if needed, and click **Create clone**.



The screenshot shows a 'Create clone' dialog box. At the top left is the Google Cloud logo and the text 'SQL'. To the right is a back arrow and the title 'Create clone'. Below this is a horizontal line. The main text reads: 'A clone is a separate copy of a master instance. Your clone will copy all data and settings from instance `instance1` (First Generation)'. Below this is the section 'Instance ID' with the instruction: 'ID is permanent. Use lowercase letters, numbers and hyphens. Start with a letter.' A text input field contains the value 'instance1-clone'. At the bottom are two buttons: 'Create clone' (blue) and 'Cancel' (grey).

You are returned to the instance listing page while the clone initializes.

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