

[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/>)

[SQL Server](https://cloud.google.com/sql/docs/sqlserver/) (<https://cloud.google.com/sql/docs/sqlserver/>) [Guides](#)

Configuring database flags

[MySQL](https://cloud.google.com/sql/docs/mysql/flags) (<https://cloud.google.com/sql/docs/mysql/flags>) | [PostgreSQL](https://cloud.google.com/sql/docs/postgres/flags) (<https://cloud.google.com/sql/docs/postgres/flags>) | **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) (<https://cloud.google.com/products/#product-launch-stages>).

This page describes how to configure database flags for Cloud SQL, and lists which flags you can set for your instance. You use database flags to adjust SQL Server parameters and options, to configure and tune your instance.

When you set, remove, or modify a flag for an instance, the instance might be restarted. The flag value is then persisted for the instance until you remove it. If the instance is the source of a replica, the replica will also restart to align with the current configuration of the instance.

Configuring database flags

Setting a database flag

CONSOLE

G CLOUD

CURL

1. In the [Google Cloud Console](https://console.cloud.google.com/project/_/sql/instances) (https://console.cloud.google.com/project/_/sql/instances), create a new Cloud Console project, or open an existing project by selecting the project name.

★ **Important:** You should be aware that some resource identifiers (such as project IDs) might be retained beyond the life of your project. For this reason, avoid storing sensitive information in resource identifiers.

[...see naming guidelines](#)

2. Open the instance and click **Edit**.

3. Scroll down to the **Flags** section.
4. To set a flag that has not been set on the instance before, click **Add item**, choose the flag from the drop-down menu, and set its value.
5. Click **Save** to save your changes.
6. Confirm your changes under **Flags** on the Overview page.

Clearing all flags to their default value

CONSOLE	G CLOUD	CURL
<ol style="list-style-type: none"> 1. In the Google Cloud Console (https://console.cloud.google.com/project/_/sql/instances), create a new Cloud Console project, or open an existing project by selecting the project name. <p>★ Important: You should be aware that some resource identifiers (such as project IDs) might be retained beyond the life of your project. For this reason, avoid storing sensitive information in resource identifiers.</p> <p>...see naming guidelines</p> <ol style="list-style-type: none"> 2. Open the instance and click Edit. 3. Open the Database flags section. 4. Click the X next to all of the flags shown. 5. Click Save to save your changes. 		

Viewing current values of database flags

Determining what database flags have been set for an instance

To see what flags have been set for a Cloud SQL instance:

CONSOLE	G CLOUD	CURL
<ol style="list-style-type: none"> 1. In the Google Cloud Console (https://console.cloud.google.com/project/_/sql/instances), create a new Cloud Console project, or open an existing project by selecting the project name. 		

★ **Important:** You should be aware that some resource identifiers (such as project IDs) might be retained beyond the life of your project. For this reason, avoid storing sensitive information in resource identifiers.

[...see naming guidelines](#)

2. Select the instance to open its **Instance Overview** page.

The database flags that have been set are listed under the **Database flags** section.

Supported flags

Cloud SQL Flag	Type	Acceptable Values	Restart Required?	In Beta?	Notes
<u>1204 (trace flag)</u> (https://docs.microsoft.com/en-us/sql/t-sql/database-console-commands/dbcc-traceon-trace-flags-transact-sql?view=sql-server-ver15#trace-flags)	boolean	on off	No	Yes	
<u>1222 (trace flag)</u> (https://docs.microsoft.com/en-us/sql/t-sql/database-console-commands/dbcc-traceon-trace-flags-transact-sql?view=sql-server-ver15#trace-flags)	boolean	on off	No	Yes	
<u>1224 (trace flag)</u> (https://docs.microsoft.com/en-us/sql/t-sql/database-console-commands/dbcc-traceon-trace-flags-transact-sql?view=sql-server-ver15#trace-flags)	boolean	on off	No	Yes	
<u>2528 (trace flag)</u> (https://docs.microsoft.com/en-us/sql/t-sql/database-console-commands/dbcc-traceon-trace-flags-transact-sql?view=sql-server-ver15#trace-flags)	boolean	on off	No	Yes	
<u>3205 (trace flag)</u> (https://docs.microsoft.com/en-us/sql/t-sql/database-console-commands/dbcc-traceon-trace-flags-transact-sql?view=sql-server-ver15#trace-flags)	boolean	on off	No	Yes	

3226 (trace flag) (https://docs.microsoft.com/en-us/sql/t-sql/database-console-commands/dbcc-traceon-trace-flags-transact-sql?view=sql-server-ver15#trace-flags)	boolean on off	No	Yes
3625 (trace flag) (https://docs.microsoft.com/en-us/sql/t-sql/database-console-commands/dbcc-traceon-trace-flags-transact-sql?view=sql-server-ver15#trace-flags)	boolean on off	Yes	Yes
4199 (trace flag) (https://docs.microsoft.com/en-us/sql/t-sql/database-console-commands/dbcc-traceon-trace-flags-transact-sql?view=sql-server-ver15#trace-flags)	boolean on off	No	Yes
4616 (trace flag) (https://docs.microsoft.com/en-us/sql/t-sql/database-console-commands/dbcc-traceon-trace-flags-transact-sql?view=sql-server-ver15#trace-flags)	boolean on off	No	Yes
7806 (trace flag) (https://docs.microsoft.com/en-us/sql/t-sql/database-console-commands/dbcc-traceon-trace-flags-transact-sql?view=sql-server-ver15#trace-flags)	boolean on off	Yes	Yes
access check cache bucket count (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/access-check-cache-server-configuration-options?view=sql-server-ver15)	integer 0 ... 65536	No	Yes
access check cache quota (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/access-check-cache-server-configuration-options?view=sql-server-ver15)	integer 0 ... 2147483647	No	Yes
affinity mask (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/affinity-mask-server-configuration-option?view=sql-server-ver15)	integer 2147483648 ... 2147483647	No	Yes
agent xps (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/agent-xps-server-configuration-option?view=sql-server-ver15)	boolean on off	No	Yes
automatic soft-numa disabled (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/soft-numa-sql-server?view=sql-server-ver15)	boolean on off	Yes	Yes

<u>cost threshold for parallelism</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-cost-threshold-for-parallelism-server-configuration-option?view=sql-server-ver15)	integer 0 ... 32767	No	Yes
<u>contained database authentication</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/contained-database-authentication-server-configuration-option?view=sql-server-ver15)	boolean on off	No	Yes
<u>cross db ownership chaining</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/cross-db-ownership-chaining-server-configuration-option?view=sql-server-ver15)	boolean on off	No	Yes
<u>cursor threshold</u> (https://docs.microsoft.com/sql/database-engine/configure-windows/configure-the-cursor-threshold-server-configuration-option?view=sql-server-ver15)	integer -1 ... 2147483647	No	Yes
<u>default full-text language</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-default-full-text-language-server-configuration-option?view=sql-server-ver15)	integer 0 ... 2147483647	No	Yes
<u>default language</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-default-language-server-configuration-option?view=sql-server-ver15)	integer 0 ... 2147483647	No	Yes
<u>default trace enabled</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/default-trace-enabled-server-configuration-option?view=sql-server-ver15)	boolean on off	No	Yes
<u>disallow results from triggers</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/disallow-results-from-triggers-server-configuration-option?view=sql-server-ver15)	boolean on off	No	Yes
<u>external scripts enabled</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/external-scripts-enabled-server-configuration-option?view=sql-server-ver15)	boolean on off	Yes	Yes
<u>ft crawl bandwidth (max)</u>	integer	No	Yes

(https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/ft-crawl-bandwidth-server-configuration-option?view=sql-server-ver15)	0 ... 32767		
<u>ft crawl bandwidth (min)</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/ft-crawl-bandwidth-server-configuration-option?view=sql-server-ver15)	integer 0 ... 32767	No	Yes
<u>ft notify bandwidth (max)</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/ft-notify-bandwidth-server-configuration-option?view=sql-server-ver15)	integer 0 ... 32767	No	Yes
<u>ft notify bandwidth (min)</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/ft-notify-bandwidth-server-configuration-option?view=sql-server-ver15)	integer 0 ... 32767	No	Yes
<u>fill factor (%)</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-fill-factor-server-configuration-option?view=sql-server-ver15)	integer 0 ... 100	No	Yes
<u>index create memory (kb)</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-index-create-memory-server-configuration-option?view=sql-server-ver15)	integer 704 ... 2147483647	No	Yes
<u>locks</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-locks-server-configuration-option?view=sql-server-ver15)	integer 5000 ... 2147483647	Yes	Yes
<u>max server memory (mb)</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/server-memory-server-configuration-options?view=sql-server-ver15)	integer 128 ... 2147483647	No	Yes
<u>max text repl size (b)</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-max-text-repl-size-server-configuration-option?view=sql-server-ver15)	integer -1 ... 2147483647	No	Yes
<u>max worker threads</u>	integer 128 ... 65535	No	Yes

(<https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-max-worker-threads-server-configuration-option?view=sql-server-ver15>)

<u>nested triggers</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-nested-triggers-server-configuration-option?view=sql-server-ver15)	boolean on off	No	Yes
<u>optimize for ad hoc workloads</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/optimize-for-ad-hoc-workloads-server-configuration-option?view=sql-server-ver15)	boolean on off	No	Yes
<u>ph timeout (s)</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/ph-timeout-server-configuration-option?view=sql-server-ver15)	integer 1 ... 3600	No	Yes
<u>query_governor cost limit</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-query-governor-cost-limit-server-configuration-option?view=sql-server-ver15)	integer 0 ... 2147483647	No	Yes
<u>query wait (s)</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-query-wait-server-configuration-option?view=sql-server-ver15)	integer -1 ... 2147483647	No	Yes
<u>recovery interval (min)</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-recovery-interval-server-configuration-option?view=sql-server-ver15)	integer 0 ... 32767	No	Yes
<u>remote access</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-remote-access-server-configuration-option?view=sql-server-ver15)	boolean on off	No	Yes
<u>remote login timeout (s)</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-remote-login-timeout-server-configuration-option?view=sql-server-ver15)	integer 0 ... 2147483647	No	Yes
<u>remote query timeout (s)</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-remote-query-timeout-server-configuration-option?view=sql-server-ver15)	integer 0 ... 2147483647	No	Yes

<u>transform noise words</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/transform-noise-words-server-configuration-option?view=sql-server-ver15)	boolean on off	No	Yes
<u>two digit year cutoff</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-two-digit-year-cutoff-server-configuration-option?view=sql-server-ver15)	integer 1753 ... 9999	No	Yes
<u>user connections</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-user-connections-server-configuration-option?view=sql-server-ver15)	integer 0 ... 32767	Yes	Yes
<u>user options</u> (https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/configure-the-user-options-server-configuration-option?view=sql-server-ver15)	integer 0 ... 32767	No	Yes

What's next

- Learn more about [SQL Server configuration options](https://docs.microsoft.com/sql/database-engine/configure-windows/server-configuration-options-sql-server?view=sql-server-ver15)
(<https://docs.microsoft.com/sql/database-engine/configure-windows/server-configuration-options-sql-server?view=sql-server-ver15>)

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