

[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](#)

# How-to Guides

## Creating and Managing Instances

### Creating instances

Create a new Cloud SQL SQL Server instance.

(<https://cloud.google.com/sql/docs/sqlserver/create-instance>)

### Using customer-managed encryption keys (CMEK)

Create a new instance with a customer-enabled encryption key.

(<https://cloud.google.com/sql/docs/sqlserver/configure-cmek>)

### Viewing instance information

View instance settings.

(<https://cloud.google.com/sql/docs/sqlserver/instance-info>)

### Editing instances

Edit an existing instance.

(<https://cloud.google.com/sql/docs/sqlserver/edit-instance>)

### Starting, stopping, and restarting instances

Start, stop, or restart an instance.

(<https://cloud.google.com/sql/docs/sqlserver/start-stop-restart-instance>)

### Deleting instances

Delete an instance.

(<https://cloud.google.com/sql/docs/sqlserver/delete-instance>)

### Configuring private IP connectivity

Enable or configure private IP for an instance.

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

### Configuring public IP connectivity

Add or remove authorized IP addresses for an instance.

(<https://cloud.google.com/sql/docs/sqlserver/configure-ip>)

### Configuring organization policies

Add organization policies to control access to and from Cloud SQL instances.

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

### Configuring SSL/TLS

Configure SSL/TLS for an instance, including enforcing the use of SSL/TLS and certificate management.

(<https://cloud.google.com/sql/docs/sqlserver/configure-ssl-instance>)

### Configuring database flags

Update database flags for an instance.

(<https://cloud.google.com/sql/docs/sqlserver/flags>)

### Labeling instances

Add, update, or delete labels for an instance.

(<https://cloud.google.com/sql/docs/sqlserver/label-instance>)

### Finding and setting maintenance windows

Find or set maintenance windows on instances.

(<https://cloud.google.com/sql/docs/sqlserver/set-maintenance-window>)

## Connecting to Instances

### Connecting sqlcmd using IP addresses

Connect to an instance by authorizing access to an IP address or range of addresses.

(<https://cloud.google.com/sql/docs/sqlserver/connect-admin-ip>)

### Connecting sqlcmd using the proxy

Connect to an instance by using the Cloud SQL Proxy.

(<https://cloud.google.com/sql/docs/sqlserver/connect-admin-proxy>)

### Managing Database Connections

Best practices for managing database connections in your applications.

(<https://cloud.google.com/sql/docs/sqlserver/manage-connections>)

## Data Management

### Enabling and disabling high availability on an instance

Configure an instance to fail over to a different zone in case of a zonal outage or disable high availability on an instance.

(<https://cloud.google.com/sql/docs/sqlserver/configure-ha>)

### Creating and managing on-Demand and automatic backups

Schedule and disable automatic backups, create and manage on-demand backups, and view backups for your instance.

(<https://cloud.google.com/sql/docs/sqlserver/backup-recovery/backing-up>)

### Restoring an instance

Restore an instance from a backup.

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

### Importing data into Cloud SQL

Import data from Cloud Storage to an instance.

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

### Exporting data

Export data from an instance to Cloud Storage, or from an instance you manage to the local file system.

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

### Checking the status of import and export operations

Check the status of import and export operations.

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

## Managing Databases and Users

### Creating and managing databases

Create, list, and delete databases on an instance.

(<https://cloud.google.com/sql/docs/sqlserver/create-manage-databases>)

### Creating and managing users

Create and manage users on an instance.

(<https://cloud.google.com/sql/docs/sqlserver/create-manage-users>)

## Using the Cloud SDK

### Using the Cloud SDK

Use the gcloud command-line tool in the Cloud SDK to manage instances.

(<https://cloud.google.com/sql/docs/sqlserver/cloud-sdk>)

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