Learn about our latest innovations across databases, analytics, and AI at the Data Cloud Summit. Live and on demand starting May 26.

JUMP TO

Cloud SQL

Fully managed relational database service for MySQL, PostgreSQL, and SQL Server.

Go to console Contact sales

- Reduce maintenance cost with fully managed relational databases in the cloud
- Ensure business continuity with reliable and secure services backed by 24/7 SRE team
- Automate database provisioning, storage capacity management, and other time-consuming tasks
- Database observability made easy for developers with Cloud SQL Insights
- Easy integration with existing apps and Google Cloud services like GKE and BigQuery

Gartner

Gartner recognizes Google Cloud as a Leader in the 2020 Magic Quadrant for Cloud Database Management Systems

Get the report

Key features

Fully managed

Cloud SQL automatically ensures your databases are reliable, secure, and scalable so that your business continues to run without disruption. Cloud SQL automates all your backups, replication, encryption patches, and capacity increases—while ensuring greater than 99.95% availability, anywhere in the world.

Integrated

Access Cloud SQL instances from just about any application. Easily connect from App Engine, Compute Engine, Google Kubernetes Engine, and your workstation. Open up analytics possibilities by using BigQuery to directly query your Cloud SQL databases.

Reliable

Easily configure replication and backups to protect your data. Go further by enabling automatic failover to make your database highly available. Your data is automatically encrypted, and Cloud SQL is SSAE 16, ISO 27001, and PCI DSS compliant and supports HIPAA compliance.

Easy migrations to Cloud SQL

Database Migration Service (DMS) makes it easy to migrate your production databases to Cloud SQL with minimal downtime. This serverless offering eliminates the manual hassle of provisioning, managing, and monitoring migration-specific resources. DMS leverages the native replication capabilities of MySQL and PostgreSQL to maximize the fidelity and reliability of your migration. And it's available at no additional charge for native like-to-like migrations to Cloud SQL. Learn more.

View all features

BLOG POST

How OneMarket decentralized data management with Cloud SQL.

5-min read

BLOG POST

Descartes Labs relied on automatic storage increases to cover nearly 40X disk growth.

6-min read

See all customers

WHAT'S NEW

What's new

Sign up for Google Cloud newsletters to receive product updates, event information, special offers, and more.

NEWS

Modernize with managed SQL Server demo

Learn more

VIDEO

Introducing Cloud SQL Insights - database observability made easy for developers

Watch video

DOCUMENTATION

Documentation

GOOGLE CLOUD BASICS

Cloud SQL features

Connect a MySQL client to your Cloud SQL instance—whether it's running locally on your client machine or in Cloud Shell.

Learn more

GOOGLE CLOUD BASICS

Cloud SQL for MySQL

Learn about the major features and capabilities of Cloud SQL for MySQL.

Learn more

GOOGLE CLOUD BASICS

Cloud SQL Insights

Get an overview of Insights and learn how to use it to detect and diagnose performance problems.

Learn more

GOOGLE CLOUD BASICS

High availability configuration

Get an overview of the high availability (HA) configuration for Cloud SQL instances.

Learn more

Learn more

TUTORIAL

Get started with Cloud SQL in this hands-on practice

Enroll in this Qwiklabs quest to receive hands-on practice on Cloud SQL and apply this knowledge to production frameworks and application environments.

Learn more

Not seeing what you're looking for?

View all product documentation

Explore more docs

Quickstarts

Get a quick intro to using this product.

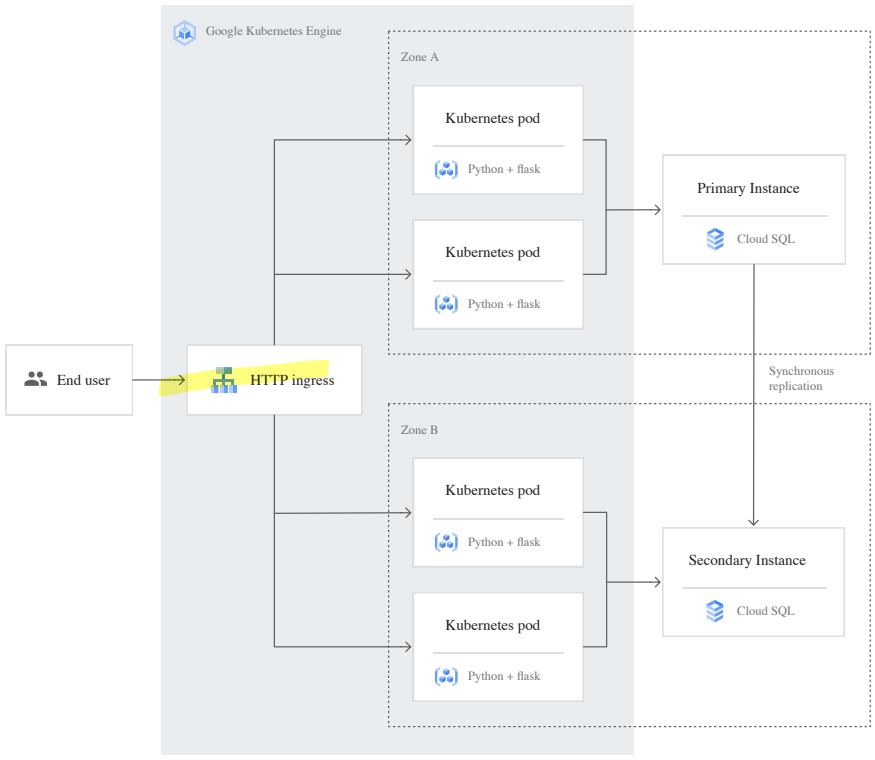
How-to guides

Learn to complete specific tasks with this product.

Tutorials

Browse walkthroughs of common uses and scenarios for this product.

APIs & references



TUTORIAL

Perform data analysis

Import data from a CSV text file into Cloud SQL and then analyze it with basic queries.

Learn more

TUTORIAL

Build and deploy web applications

Use Cloud SQL, Google Kubernetes Engine, and Google App Engine to develop, deploy, and scale applications integrated across Google Cloud.

Learn more

databases from on-premises, Compute Engine, and other clouds to Cloud SQL with minimal downtime.

Secure access and connectivity

Cloud SQL data is encrypted when on Google's internal networks and when stored in database tables, temporary files, and backups. Cloud SQL supports private connectivity with Virtual Private Cloud (VPC), and every Cloud SQL instance includes a network firewall, allowing you to control public network access to your database instance.

Built-in high availability

Replicate your instance to another zone or region with just a click of a button. Leverage built-in HA to provide isolation from many types of infrastructure hardware, and software failures.
Cloud SQL for MySQL HA
Cloud SQL for PostgreSQL HA
Cloud SQL for SQL Server HA

Scalability

Easily scale up as your data grows—add up to 96 processor cores and more than 624 GB of RAM and 30 TB of storage and add read replicas to handle increasing read traffic.

Cloud SQL Insights

Quickly understand and resolve database performance issues on Cloud SQL. Pre-built dashboards and visual query plans help developers identify the root cause of problems. Access database metrics and traces in existing tools using OpenTelemetry. Monitor databases through the lens of the application using query tags.

Real-time change data capture and replication	Synchronize data across heterogeneous databases, storage systems, and applications reliably and with minimal latency with Datastream. Seamlessly deliver change streams from Oracle and MySQL databases into Google Cloud services such as BigQuery, Cloud SQL, Google Cloud Storage, and Cloud Spanner for up-to-date information.
Automatic backups	Automate daily backups and binary logging (for replication or point-in-time recovery).
Point-in-time recovery	Restore your instance to its state at an earlier point in time.
Compatibility	Build and deploy for the cloud faster because Cloud SQL offers standard MySQL, PostgreSQL, and Microsoft SQL Server databases, ensuring application compatibility.
Standard APIs	Build and deploy for the cloud faster because Cloud SQL offers standard MySQL, PostgreSQL, and SQL Server databases, ensuring application compatibility. Use standard connection drivers and built-in migration tools to get started quickly.

PRICING

Pricing

Informatica

Segment

talend

xplenty

striim

Data analysis and visualization

Monitoring and management tools

Consulting partners

See all partners

Get tips & best practices

See tutorials