

Cloud Logging

Real-time log management and analysis at enterprise scale.

[Go to console](#)[View documentation](#)

- ✓ Securely store, search, analyze, and alert on all of your log data and events
- ✓ Open: ingest custom log data from any source
- ✓ An exabyte-scale, fully managed service for your application and infrastructure logs
- ✓ Pre-integrated with many Google Cloud services so it is easy to get started
- ✓ Analyze log data in real time

Cloud Logging in a minute

Cloud Bytes



01:50

VIDEO

Cloud Logging in a minute

BENEFITS

Quickly resolve issues

Supported across Google Cloud services and integrated with Cloud Monitoring, Error Reporting, and Cloud Trace so you can quickly troubleshoot issues across your infrastructure and applications.

Secure, scalable, and fully managed

With sub-second ingestion latency, terabyte per-second ingestion rate, and exabytes of logs stored each month, you can securely store all of your logs from any source in one place with no management overhead.

Real-time insights

Combine the power of Cloud Logging with BigQuery for advanced analysis and use log-based metrics to build real-time Cloud Monitoring dashboards.

KEY FEATURES

Key features

Logs explorer

[Logs explorer](#) enables you to search, sort, and analyze logs through flexible query statements, along with rich histogram visualizations, simple field explorers, and ability to save the queries.

Custom logs / Ingestion API

Write any custom log, from on-premises or another cloud, using our [public write APIs](#).

Alerting on logs

Integrate with Cloud Monitoring to [set alerts](#) on the logs events, including the logs-based metrics you have defined.

Error Reporting

Real production problems can be hidden in mountains of data. [Error Reporting](#) helps you see the problems through the noise by automatically analyzing your logs for exceptions and intelligently aggregating them into meaningful error groups.

With [Error Reporting](#), you can see at a glance your top or new errors and set up notifications to automatically alert you when a new error group is identified.

Cloud Audit Logs

[Cloud Audit Logs](#) helps security teams maintain audit trails in Google Cloud. With this tool, enterprises can attain the same level of transparency over administrative activities and accesses to data in Google Cloud as in on-premises environments. Every administrative activity is recorded on a hardened, always-on audit trail, which cannot be disabled by any rogue actor. [Data access logs](#) can be customized to best suit your organization's need around monitoring and compliance.

[View all features](#)



Data governance: Principles for securing and managing logs

[Get the whitepaper](#)

CUSTOMERS

Learn how Google Cloud customers are using Cloud Logging for better operations

CASE STUDY

ADEO Services: Cloud Logging as a universal back end for logs across Google Cloud, on-prem, and SaaS

4-min read



CASE STUDY

Gannett, America’s largest newspaper publisher, improves observability with Google Cloud's ops suite

7-min read



CASE STUDY

Volusior ingestic events

4-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.



BLOG POST

Analyze your logs easier with log field analytics

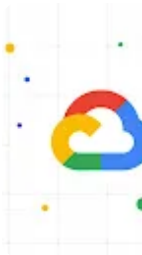
[Read the blog](#)



BLOG POST

All together now: Bringing your GKE logs to the Cloud Console

[Read the blog](#)



DOCUMENTATION

Documentation

QUICKSTART

Quickstart using Cloud Logging tools

This quickstart introduces you to some of the capabilities of Cloud Logging.

[Learn more](#)

APIS & LIBRARIES

Using the Cloud Logging API

Find reference documentation and sample code and try out the API here.

[Learn more](#)

GOOGLE CLOUD BASICS

Cloud Audit Logs

Gain visibility into who did what, when, and where for all user activity on Google Cloud Platform.

[Learn more](#)

GOOGLE CLOUD BASICS

Access Transparency

Learn how Access Transparency provides you with logs that capture the actions Google personnel take when accessing your content.

[Learn more](#)

GOOGLE CLOUD BASICS

Access Approval

See how the Access Approval API enables controlling access to your organization’s data by Google personnel.

[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

View APIs, references, and other resources for this product.

RELEASE NOTES

Read about the latest releases for Cloud Logging

ALL FEATURES

All features

Logs viewer

[Search, sort, and query logs](#) through flexible query statements, along with rich histogram visualizations, simple field explorers, and ability to save the queries.

Custom logs / Ingestion API

Write any custom log, from any source, into Cloud Logging using the public write APIs.

Logs alerting

Integrate with [Cloud Monitoring](#) to set alerts on the logs events, including the logs-based metrics you have defined.

Advanced analytics with BigQuery

Optionally, export data with one-click configuration in real time to BigQuery for advanced analytics and SQL-like querying.

Logs retention

Configure different retention periods for logs in different log buckets, and criteria for different logs using the logs router.

Logs-based metrics

Create metrics from log data which appears seamlessly in Cloud Monitoring, where you can visualize these metrics and create dashboards.

Audit logging

Access [audit logs](#) that capture all the admin and data access events within Google Cloud, with 400 days of data retention at no additional cost.

Third-party integrations

Integrate with external systems using Pub/Sub and configuring Loas Router to export the loas.

Logs archival	Store logs for a longer duration at lower cost by easily exporting into Cloud Storage .
Error Reporting	Error Reporting lets you see problems through the noise by automatically analyzing your logs for exceptions and intelligently aggregating them into meaningful error groups.
Log buckets and views	Log buckets provides a first-class logs storage solution that lets you centralize or subdivide your logs based on your needs. From there, use log views to specify which logs a user should have access to, all through standard IAM controls.

PRICING

Pricing

All features of Cloud Logging are free to use, and pricing is applicable for ingested log volume over the free allotment. Get more [pricing details](#).

FEATURE	PRICE ¹	FREE ALLOTMENT PER MONTH	EFFECTIVE DATE
Logging data	\$0.50/GiB	First 50 GiB/project	July 1, 2018

¹For pricing purposes, all units such as MB and GB represent *binary* measures. For example, 1 MB is 2²⁰ bytes. 1 GB is 2³⁰ bytes. These binary units are also known as [mebibyte \(MiB\)](#) and [gibibyte \(GiB\)](#), respectively. Note also that MB and MiB, and GB and GiB, are used interchangeably.

[View pricing details](#)