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JUMP TO   ⌄

Pub/Sub

Messaging and ingestion for event-driven systems and streaming analytics.

New customers get $300 in free credits to spend on Google Cloud during the first 90 days. All customers get up to 10 GB/month for ingestion or delivery of messages, free of charge.

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✓   Scalable, in-order message delivery with pull and push modes

✓   Auto-scaling and auto-provisioning with support from zero to hundreds of GB/second

✓   Independent quota and billing for publishers and subscribers

✓   Global message routing to simplify multi-region systems

FORRESTER

Forrester names Google a Leader in The Forrester Wave™: Streaming Analytics, Q3 2019

Register to download the report

BENEFITS

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Stream analytics and connectors

Native Dataflow integration enables reliable, expressive, exactly-once processing and integration of event streams in Java, Python, and SQL.
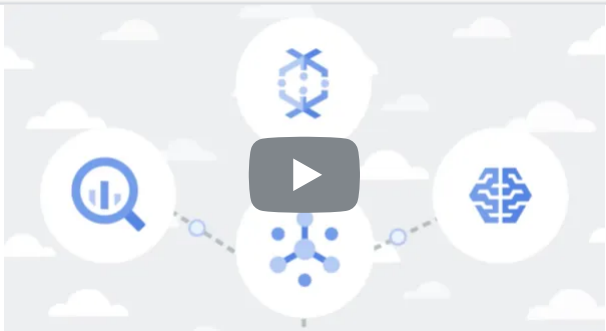
In-order delivery at scale

Optional per-key ordering simplifies stateful application logic without sacrificing horizontal scale—no partitions required.

Cost-optimized ingestion with Pub/Sub Lite

Complementing Pub/Sub, Pub/Sub Lite aims to be the lowest cost option for high-volume event ingestion. Pub/Sub Lite offers zonal storage and puts you in control of capacity management.

View all features

01:45

VIDEO

Learn Pub/Sub in one minute, including how it works and common use cases.

CUSTOMERS

Learn from customers using Pub/Sub

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GOOGLE CLOUD BASICS

What is Pub/Sub?

Get a comprehensive overview of Pub/Sub, from core concepts and message flow to common use cases and integrations.

Learn more

TUTORIAL

In-order message delivery

Learn how scalable message ordering works and when to use it.

Learn more

TUTORIAL

Choosing between Pub/Sub or Pub/Sub Lite

Understand how to make most of both options.

Learn more

QUICKSTART

Quickstart: Using client libraries

See how the Pub/Sub service allows applications to exchange messages reliably, quickly

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Get a quick intro to using this product.

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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 Pub/Sub

USE CASES

Use cases

USE CASE

Stream analytics

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USE CASE

Asynchronous microservices integration

Pub/Sub works as a messaging middleware for traditional service integration or a simple communication medium for modern microservices. Push subscriptions deliver events to serverless webhooks on Cloud Functions, App Engine, Cloud Run, or custom environments on Google Kubernetes Engine or Compute Engine. Low-latency pull delivery is available when exposing webhooks is not an option or for efficient handling of higher throughput streams.

View all technical guides

ALL FEATURES

All features

At-least-once delivery

Synchronous, cross-zone message replication and per-message receipt tracking ensures at-least-once delivery at any scale.

Open

Open APIs and client libraries in seven languages support cross-cloud and hybrid deployments.

Exactly-once processing

Dataflow supports reliable, expressive, exactly-once processing of Pub/Sub streams.

No provisioning, auto-everything

Pub/Sub does not have shards or partitions. Just set your quota, publish, and consume.

Compliance and security

Pub/Sub is a HIPAA-compliant service, offering fine-grained access controls and end-to-end encryption.

Google Cloud–native integrations

Take advantage of integrations with multiple services, such as Cloud Storage and Gmail update events and Cloud Functions for serverless event-driven computing.

Third-party and OSS integrations

Pub/Sub provides third-party integrations with Splunk and Datadog for logs along with Striim and Informatica for data integration. Additionally, OSS integrations are available through Confluent Cloud for Apache Kafka and Knative

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PRICING

Pricing

Pub/Sub pricing is calculated based upon monthly data volumes. The first 10 GB of data per month is offered at no charge.

MONTHLY DATA VOLUME[1]	PRICE PER TB[2]
First 10 GB	$0.00
Beyond 10 GB	$40.00

[1] For detailed pricing information, please consult the **pricing guide**.

[2] TB refers to a tebibyte, or 2^{40} bytes.

If you pay in a currency other than USD, the prices listed in your currency on Cloud Platform SKUs apply.

View pricing details

Take the next step

Start your next project, explore interactive tutorials, and manage your account.

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