



Learn more about the latest generative AI launches, including vector search capabilities and LangChain integrations across Google Cloud databases.



Bigtable

Scale your latency-sensitive applications with the NoSQL pioneer

Enterprise-grade, low-latency NoSQL database service for machine learning, operational analytics, and user-facing applications at scale

[Try Bigtable free](#)[Contact sales](#)

New customers get \$300 in free credits to spend on Bigtable.

Product highlights

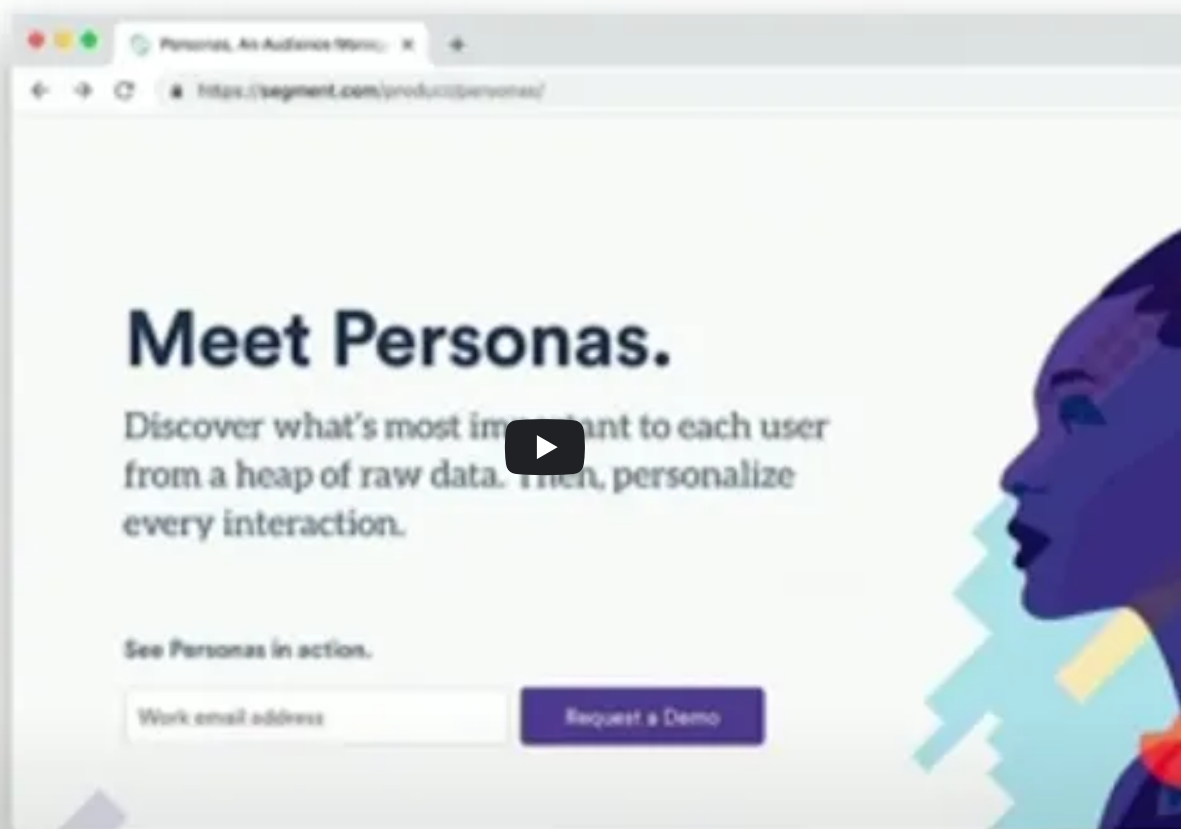
- ⬇ Support multi-tenant, mixed operational, and real-time analytical workloads in a single platform with ease
- ⬇ High-performance reads and writes even in globally distributed deployments
- ⬇ Build multicloud or hybrid-cloud architectures with the open source Apache HBase API and bi-directional sync



What is Bigtable?

Video

Bigtable is a key-value and wide-column store, ideal for fast access to structured, semi-structured, or unstructured data. Latency-sensitive workloads like personalization are perfect for Bigtable but its high read and write throughput per dollar efficiency makes it also a great fit for clickstream and IoT use cases, and even batch analytics for high-performance computing (HPC) applications, including training ML models.



How Segment drives real-time personalization with Bigtable

41:18

Write and read scalability with no limits

to adapt to server traffic, handling the sharding, replication, and query processing.

Data model flexibility

Bigtable lets your data model evolve organically. Store anything from scalars, JSON, Protocol Buffers, Avro, Arrow to embeddings, images, and dynamically add/remove new columns as needed. Deliver low-latency serving or high-performance batch analytics over raw, unstructured data in a single database.

The image is a screenshot of the Solana website. At the top left is the Solana logo. To its right are navigation links: 'Learn', 'Build', 'Ecosystem', and 'Community'. The main heading is 'Decentralized payments at scale'. Below it is a subtext: 'Solana's high throughput and low fees make it a perfect fit for merchants to accept stablecoin payments.' There are two buttons: 'GET STARTED' (green) and 'LEARN MORE ABOUT SOLANA PAY' (white). A play button icon is centered below the buttons. At the bottom, there is a green bar with three statistics: '\$4B+ USDC in circulation on Solana', '280K active daily accounts', and '\$0.00025 avg transaction fee'.

Decentralized payments at scale

Solana's high throughput and low fees make it a perfect fit for merchants to accept stablecoin payments.

[GET STARTED](#) [LEARN MORE ABOUT SOLANA PAY](#)

\$4B+
USDC in circulation on Solana

280K
active daily accounts

\$0.00025
avg transaction fee

Solana stores the world's largest blockchain ledger on Bigtable

1:22

From a single zone up to eight regions at once

Cloud Bigtable

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scaled up to multi-region deployments with automatic replication. When running a multi-region instance, your database is protected against a regional failure and offers industry-leading 99.999% availability.

Easy migration from NoSQL databases

Live migrations enable faster and simpler onboarding by ensuring accurate data migration with reduced effort. [HBase](#) Bigtable [replication library](#) allows for no-downtime live migrations with [import](#) and [validation](#) tools to easily load HBase snapshots into Bigtable while [Dataflow templates](#) simplify migrations from [Cassandra](#) to Bigtable.

HBase to Bigtable Migrations



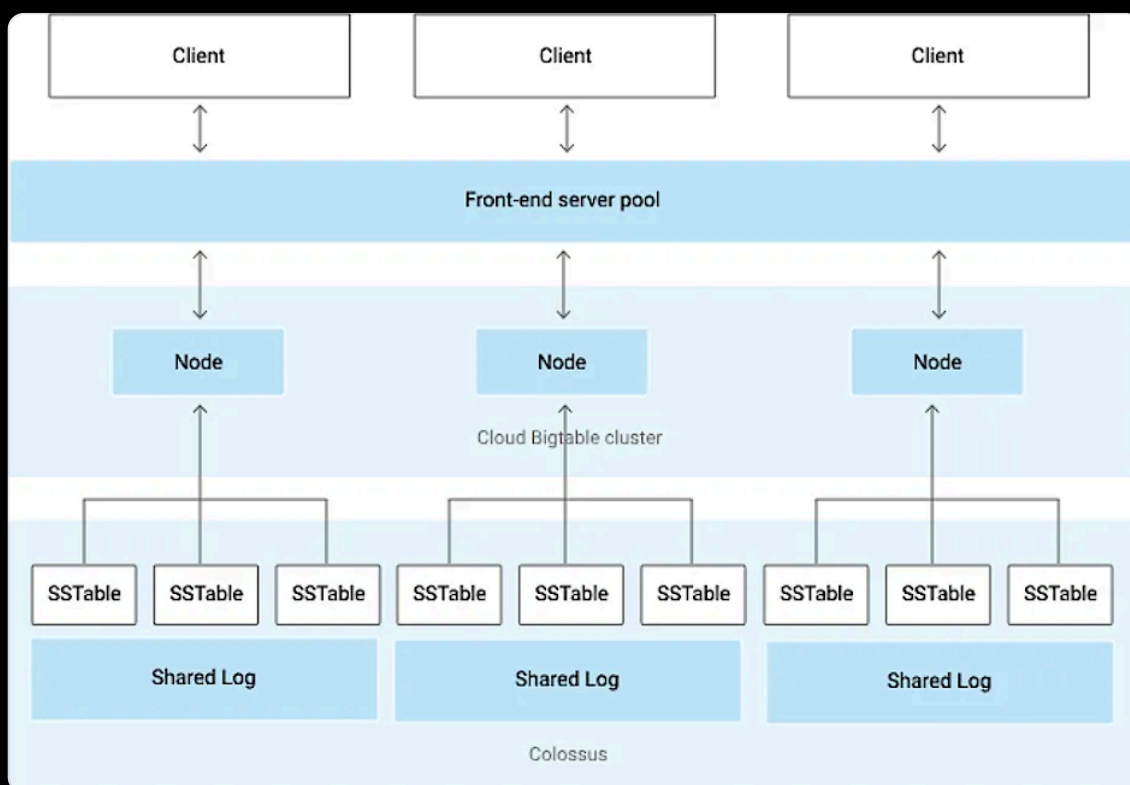
Shitanshu Verma,
Software Engineer

Zero-downtime HBase to Bigtable migrations

12:42

[View all features ▼](#)

Bigtable instances provide compute and storage in one or more regions. Each Bigtable cluster can receive both reads and writes. Data is automatically "split" for scalability and replicated between clusters asynchronously. A distributed clock called TrueTime guarantees transactions are correctly ordered.

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PRICING

pricing
works

usage. Committed use discounts reduce the price further.

Service	Description	Price
Compute capacity	Compute capacity is provisioned as nodes.	Starting at \$0.65 per node per hour
Data storage	SSD Pricing is based on the physical size of tables. Each replica is billed separately. Recommended for low-latency serving.	Starting at \$0.17 per GB per month
	HDD Pricing is based on the physical size of tables. Each replica is billed separately.	Starting at \$0.026 per GB per month
Backups	Pricing is based on the physical size of backups. Bigtable backups are incremental.	Starting at \$0.026

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pricing
works

budget committed use discounts reduce the price further.

per GB per month

Network

Ingress

Free

Egress within same region

Free

Egress between regions

Starting at
\$0.10
per GB

Replication

Within same region

Free

Between regions

Starting at
\$0.01
per GB

Learn more about Bigtable [pricing](#) and [committed use discounts](#).

PRICING CALCULATOR

CUSTOM QUOTE

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Start your Bigtable proof of concept

User you \$300 credit (new users)

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Learn how to use Bigtable

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Federate queries from BigQuery into Bigtable

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Migrate from HBase, Cassandra, Aerospike, or DynamoDB to Bigtable

[Read the guide](#)

BUSINESS CASE

Explore how other businesses built innovative apps to deliver great customer experiences, cut costs, and increase ROI with Bigtable

Explore how Box modernized their NoSQL databases with Bigtable

Box enhanced scalability and availability while reducing cost to manage, through a seamless migration.

[Watch the video](#)

Related Content



Sabre delivers travel search results with lower latency and TCO with Bigtable

**PLAID**

How Plaid built its real-time analytics platform on BigQuery and Bigtable



Airship achieves over one million writes and 700K reads per second cost-effectively with Bigtable

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Get best-in-class price-performance and pay for what you use.

Migrate easily from other NoSQL databases and run hybrid or multicloud deployments with open source APIs and migration tools.



PARTNERS & INTEGRATION

Take advantage of partners with Bigtable expertise to help you at every step of the journey, from assessments and business cases to migrations and building new apps on Bigtable.

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your business? Go to the [partner directory](#).

FAQ

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What type of database is Bigtable? ⌵

Bigtable is a NoSQL database service, specifically a key-value store that allows for very wide tables with tens of thousands of columns hence also referred to as a wide-column database or a distributed multi-dimensional map. Bigtable is most similar to popular open source projects it inspired, such as Apache HBase and Cassandra, and hence is the most common destination for customers that deal with large data volumes looking for a high-performance, cost-effective, fully managed NoSQL database solution on Google Cloud.

How do I migrate databases to Bigtable? ⌵

Is Bigtable serverless? ⌵

Learn more

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