

Comparing Redis Enterprise Cloud and Google Memorystore for Redis

Considerations for achieving premier performance, scalability, and availability

Are you planning to use Redis as a fully managed service on Google Cloud? Great. Consult this comparison to ensure that you choose the best Redis service for your business needs.

There are multiple choices for deploying Redis on Google Cloud. Two of the most popular are Redis Enterprise Cloud and Memorystore for Redis. Both provide the benefits of a fully managed Redis compliant service and a unified bill from Google. In addition, Redis Enterprise Cloud from the Google Cloud Marketplace provides:

- Market leading performance, scalability, and availability that business-critical applications require
- An Active-Active architecture for global distribution and local latency
- Advanced Redis capabilities, including database search, secondary indexing, and native JSON.

But that's not all. Here's a look at some of the key differences between the two services.

	Memorystore for Redis	 Redis Enterprise Cloud
Performance	Up to 16GB persecond of throughput	Up to 150 GB per second of throughput
Scalability	<ul style="list-style-type: none"> • Up to 300GB maximum instance size • Single database per subscription 	<ul style="list-style-type: none"> • Up to 25TB instance size in RAM or Flash • Multi-tenancy supporting multiple databases per subscription
Availability	<ul style="list-style-type: none"> • 99.9% availability • Up to 44 minutes downtime per month 	<ul style="list-style-type: none"> • 99.999% availability • Less than 26 seconds downtime per month
Support	Managed and supported by Google Cloud	Fully managed and supported by the creators of Redis
Durability	<ul style="list-style-type: none"> • Cache only • RDB snapshot backup only 	<ul style="list-style-type: none"> • Full database persistence • Multiple backup options
Deployment options	Google Cloud only	Any cloud, Kubernetes, on-premises, or hybrid
Geographic reach	<ul style="list-style-type: none"> • No cross-region replication • No write replicas, limit of five read replicas 	<ul style="list-style-type: none"> • Active-Active architecture for global replication • Local latency on reads and writes
Additional features		<ul style="list-style-type: none"> • Immediate failovers • Full text search • Secondary indexing • Native JSON support • Graph data models • Time series data models • Probabilistic data structures including Bloom filter & Cuckoo filter

Redis Enterprise on Google Cloud Success Stories



Unity: Creating real-time 3D content

Unity helps creators develop and operate interactive real-time 3D content. With more than 45 deployment locations, its platform powers almost half of the 3D content delivered worldwide.

The Unity platform requires the highest performance, scalability, and availability possible. By using Redis Enterprise on Google Kubernetes Engine (GKE), the company lowered local latency and improved resilience and application performance. It also deployed Redis Enterprise Operator for Kubernetes, which aided in prevention of human errors, overall DevOps team productivity, and easily scaling operations.

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Ulta Beauty: The United States' largest beauty chain retailer

The coronavirus pandemic forced physical retail stores to shut their doors. However, in 2021, Ulta Beauty found a way to grow its business by 40%. Redis was a critical technology partner in helping Ulta achieve that admirable feat. Redis Enterprise on Google Cloud allowed Ulta to implement a brand-new curbside pickup system in just four weeks. That let Ulta Beauty pursue its primary goal: delivering the products customers want, when and where they want them.

“Ten percent of Ulta’s overall revenue comes from our e-commerce channel, and that number is consistently growing. We are moving towards a microservices-based, API-first approach to our new eCommerce apps and platforms. All while leveraging the flexibility of Redis’ managed service on Google Cloud.”

– Omar Koncobo, IT Director of eCommerce and Digital Systems, Ulta Beauty



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GoMechanic: India's largest car service network

“GoMechanic needed a fast data layer to search across 10 million spare parts and to power our customer service chats. RediSearch on Google Cloud was not only four times faster than our existing database, but also extremely robust, easy to scale, and inexpensive.”

– Prasenjit Singh, Vice President of Engineering, GoMechanic

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