

Memorystore

Reduce latency with scalable, secure, and highly available in-memory service for Redis and Memcached.

- Build application caches that provide sub-millisecond data access
- 100% compatible with open source Redis and Memcached
- Migrate your caching layer to cloud with zero code change

BENEFITS

Focus on building great apps

Memorystore automates complex tasks for open source [Redis](#) and [Memcached](#) like enabling high availability, failover, patching, and monitoring so you can spend more time coding.

Scale as needed

Scale as your application grows. You can scale reads to over a million QPS with Redis 6 and Read Replicas. Memorystore for Memcached provides clusters as large as 5 TB to meet your caching needs.

Highly available

Memorystore for Redis standard tier instances supports up to five read replicas which are replicated across zones and provide a 99.9% availability SLA, resulting in minimal disruption of applications.

Key features

Choice of engines

Choose from the two most popular open source caching engines to build your applications. Memorystore supports both Redis and Memcached and is fully protocol compatible. Choose the right engine that fits your cost and availability requirements.

Security

Memorystore is protected from the internet using VPC networks and private IP and comes with IAM integration—all designed to protect your data. Systems are monitored 24/7/365, ensuring your applications and data are protected.

Fully managed

Provisioning, replication, failover, and patching are all automated, which drastically reduces the time you spend doing DevOps.

All features

Choice of engines	<p>Choose from the two most popular open source caching engines to build your applications.</p> <p>Memorystore supports both Redis and Memcached and is fully protocol compatible. Choose the right engine that fits your cost and availability requirements.</p>
Fully managed	<p>Provisioning, replication, failover, and patching are all automated, which drastically reduces the time you spend doing DevOps.</p>
Highly scalable	<p>Memorystore for Redis Read Replicas along with Redis 6 allow applications to scale read requests to more than a million QPS. Memorystore for Redis and Memcached enable scaling on-demand with minimal downtime making it easy to rightsize your instances based on application demand.</p>
Security	<p>Memorystore is protected from the internet using VPC networks and private IP and comes with IAM integration—all designed to protect your data. Systems are monitored 24/7/365, ensuring your applications and data are protected. Memorystore for Redis provides in-transit encryption and Redis AUTH to further secure your sensitive data.</p>
Monitoring	<p>Monitor your instance and set up custom alerts with Cloud Monitoring. You can also integrate with OpenCensus to get more insights to client-side metrics.</p>
Highly available	<p>Standard Tier Memorystore for Redis instances provide a 99.9% availability SLA with automatic failover to ensure that your instance is highly available.</p>

	You also get the same availability SLA for Memcached instances.
Migration	Memorystore is compatible with open source protocol which makes it easy to switch your applications with no code changes. You can leverage the import/export feature to migrate your Redis and Memcached instance to Google Cloud.

Memorystore for Redis

Memorystore for Redis is a fully managed Redis service for Google Cloud. Applications running on Google Cloud can achieve extreme performance by leveraging the highly scalable, available, secure Redis service without the burden of managing complex Redis deployments.