

Redis Enterprise: The Only Enterprise-Grade Cache Available on AWS

Compare and learn how Redis Enterprise goes above and beyond ElastiCache to power world class digital experiences at enterprise scale.

Redis Enterprise is built by the creators of Redis, the most loved¹ in-memory database, enterprise cache, and all-in-one front-end and real-time database available on AWS Marketplace.

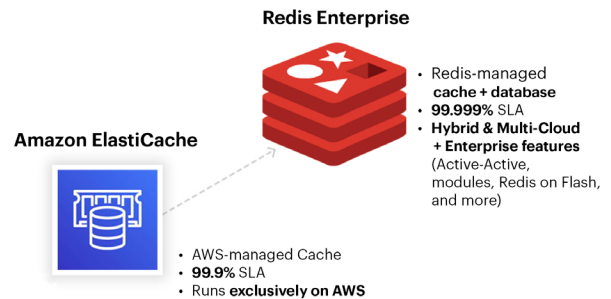
As an open-source based service, ElastiCache is appropriate for development and testing environments or environments without mission-critical applications. While ElastiCache can meet basic caching needs, when caching is mission-critical an enterprise-grade cache is a must-have.

Enter Redis Enterprise. Redis Enterprise goes beyond open-source, providing functionality to build, operate, and run your applications at scale. For production applications, when caching matters most, your only choice is to deploy enterprise-grade caching with Redis Enterprise

With Redis Enterprise you benefit from:

- **The most dependable SLAs** providing under 30 seconds of downtime per month with 99.999% availability
- **Global distribution** that maintains real-time speed and data consistency
- **Cost efficiency** at scale with data tiering and maximized resource utilization
- **Flexible deployment options** across on-premises, hybrid, and multicloud
- **Support from the best at Redis** fully managed in AWS by the company behind Redis
- **AWS Marketplace integration** providing unified billing and spend toward AWS commitments

¹ Stack Overflow 2017-2021



How do you determine when to use Amazon ElastiCache or upgrade to Redis Enterprise? The key criteria to consider are:



1. Is your cache mission-critical to your applications or user experience?
2. Does it need to effortlessly scale to meet demand?
3. Does it require global reach with low latency and data consistency?
4. Do you need a solution that is cost-effective at scale?
5. Do you require deployment flexibility to support applications hosted on-premises or on any cloud?
6. Does it require quick and knowledgeable support in the event of a disaster?

If the answer to any of these is “yes,” then you need Redis Enterprise.

“We were between two solutions in our search for a cache, Redis Enterprise Cloud and Amazon ElastiCache. Redis Enterprise Cloud was a far better overall solution than ElastiCache. Redis Enterprise Cloud’s performance and failover were second to none.”

– Arjun Yadav, Chief Technical Officer, MyTeam11
[View Case Study](#)

The Proof is in the Product: Redis Enterprise & ElastiCache Feature Comparison

	Capabilities	 Redis Enterprise	 Amazon ElastiCache
Safeguards mission-critical applications with resilience, persistence, and high availability	SLA for availability	99.999%	99.9%
	Automated failure detection <10 seconds	✓	
	Data persistence options	AOF, RDB	RDB
	No downtime or degradation when upgrading Redis Engine	✓	
	Enables backup and restore	✓	✓
Delivers real-time performance across the globe with geo-distribution	Active-Active Geo Replication (simultaneously reads and writes to multiple geographically distributed nodes with data consistency)	✓	
	Active-Passive Geo Replication (read-only geo-replication)	✓	Limited
Saves money with unmatched cost efficiency at scale	Redis on Flash technology with tiered storage to maintain performance while cutting costs at scale	✓	Limited
	Built-in multi-tenancy architecture to fully utilize infrastructure	✓	
Provides the most powerful, flexible, and secure version of Redis, managed and supported by the creators of Redis	Scales linearly without imposing overhead with shared-nothing architecture	✓	
	Can be deployed in on-premises, multicloud, and hybrid deployments	✓	
	Available as fully managed DBaaS	AWS, Azure, Google Cloud	AWS Only
	24x7x365 Redis support is provided by	Experts at Redis	AWS general support
	Extends real-time performance to popular advanced data models like JSON, timeseries, search, graph	✓	
	Supports clustering	✓	✓
	Sharding options	Standard (keys with/without hash-tag), custom (RegEx)	Standard (keys with/without hash-tag)
	High availability: quorum concept	Node-based with internal watch-dog processes (1 primary/1 replica)	Shard-based (1 primary/2 replica)
	Supports multi-core architecture	✓	
	Delivers consistent performance during internal operations (such as AOF, rewrites, snapshot, researching, replication)	✓	
	Integrated LDAP for authentication and authorization for control plane and data	✓	
	Monitoring and alerting capabilities	✓	AWS Cloud Trail
	Incorporates security best practices like; RBAC authorization, password-based authentication, mutual TLS authentication, and data encryption in transit and at rest	✓	✓