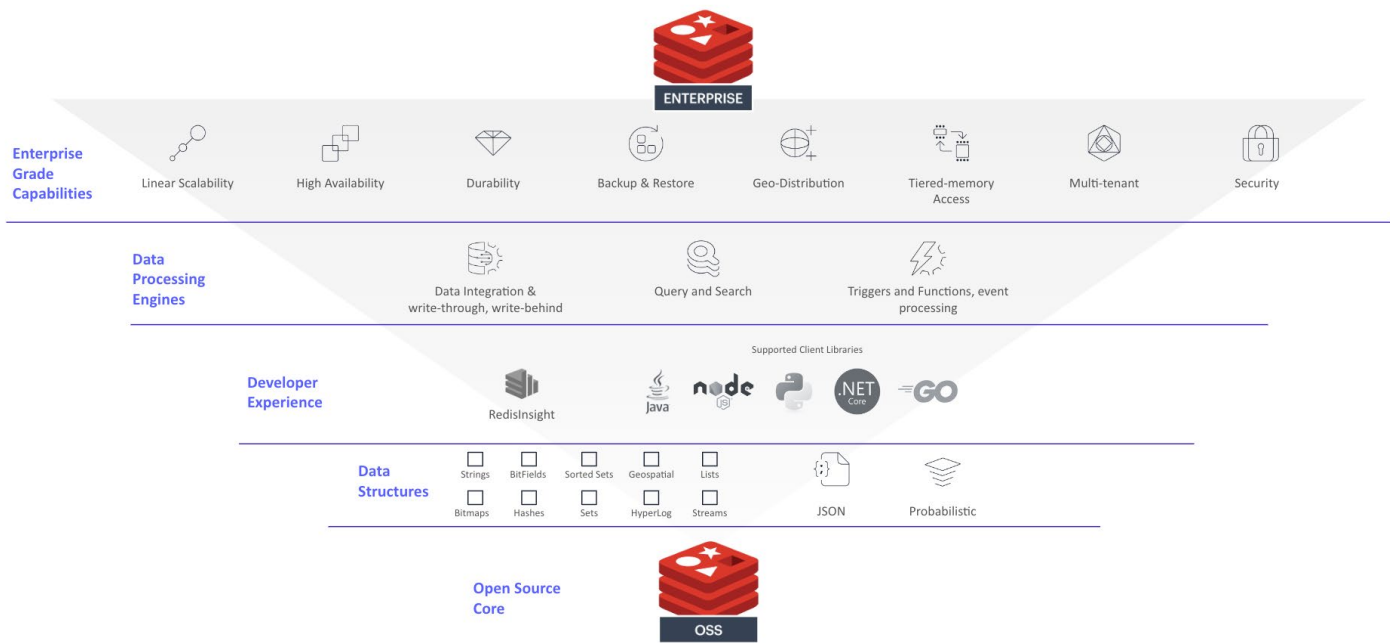# Redis Enterprise, Real-time Performance Made Simple

Improving the experience for all practitioners

Redis Enterprise is an advanced and versatile data platform built on top of the open-source Redis database. With sub-millisecond response times at millions of operations per second, Redis Enterprise delivers low latency and high throughput for an ample list of use cases, from caching and real-time analytics to vector similarity search to high-speed transactional workloads.

Designed to facilitate the development of real-time applications, Redis Enterprise supports Redis Stack, which enhances the native data structures of Redis open source with additional data models such as JSON and probabilistic data types. And tools such as RedisInsight make it easy for developers to build powerful applications by taking advantage of the latest Redis technology.

Redis Enterprise makes it easy to deploy and manage the real-time data platform in any infrastructure, on-premises, hybrid, or cloud, or as a fully managed service. And configure advanced topologies for high availability and geo-distributed replication to bring data closer to the users.

Redis Enterprise, the real-time data platform

Built for speed, designed for the enterprise

Redis is known for speed. Redis Enterprise takes it to the next level bringing the benefits required to run mission-critical applications.

High performance

Perform data operations at sub-millisecond speed over millions of transactions per second.

Best in class scalability

Scale linearly as applications demand, adding nodes and shards through a shared nothing architecture and no downtime, without sacrificing performance.

High availability

Up to 99.999% availability with automatic failover, backup, and recovery.

Intelligent tiered data access

Automatically manage large datasets between DRAM and SSD and reduce up to 70% of infrastructure costs.

Built-in durability

Support for snapshots and append-only files to store data in persistent storage.

Flexible deployment options

Deploy on-premises, on a private or public cloud, on Kubernetes, with self-managed deployment or a fully managed service.

Enterprise automation

Reduce administration costs automating tasks such as re-sharding, and shard migration, auto-balancing.

Expert advice

The support team acts as an extension of your team by diagnosing, detecting, and troubleshooting potential issues before they turn into problems for your deployment.

Read more details on the Redis Enterprise advantages page.

# Real-time data for consistent real-time experiences

Redis Enterprise simplifies the deployment of the real-time data layer for decision-making, personalization, predictive analytics, generative AI, and beyond.

Sample solutions built on Redis Enterprise	
Financial services • Fraud detection • Mobile banking	**Retail** • Real-time inventory
Gaming • Leaderboards	**Healthcare** • Claims processing
Generative AI • Vector databases for generative AI	**Any industry** • Caching

Real-time data platform, enterprise-grade features

Built on top of Redis open source, Redis Enterprise incorporates features that improve the database's performance, reliability, and availability. Organizations in all industries depend on Redis Enterprise to deploy mission-critical applications.

Key features
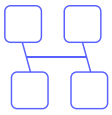
Redis Enterprise cluster architecture
The shared nothing dynamic architecture maximizes performance and resource utilization in distributed environments.
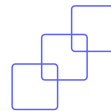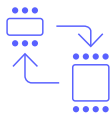
Linear scalability
Dynamically scale across instances or servers. The zero-latency distributed proxy accelerates throughput by reducing the management overhead of each instance.
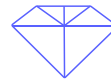
Auto tiering
Extend your database beyond the limits of available memory.

Active-Active geo-distribution
Use Redis as a global database that spans multiple clusters.

Flexible deployment architecture
Deploy on premises, cloud, hybrid cloud, full managed or any combination including Kubernetes.

Database-as-a-Service
Redis Enterprise is a cost effective, fully managed cloud database with up to 99.999% availability.

Advanced data models
Supports all modern data models including JSON, Search and Query, and more.

High Availability
Built on replicas with automatic failover, backup, and recovery.

Durable Redis
As a fully durable database, Redis Enterprise offers capabilities for data persistence.

Redis Data Integration
Redis Data Integration creates a data streaming pipeline that mirrors data from an existing database to Redis Enterprise. Result: Applications can access data at in-memory speeds.

Enhanced Programmability with Triggers and Functions
Redis supports event-driven data processing, because developers can write and run developer-defined functions on data stored in Redis.

Enterprise support
Redis is committed to providing enterprise-grade support.

[Read more about the Redis Enterprise features.](#)

Security

Redis Enterprise extends Redis' native access control lists (ACLs) by implementing a role-based access control (RBAC) layer. You can control access to data and commands by a centrally administered set of user roles, offering parity of security features between the control plane and the data plane.

	Control plane	Data plane
Encryption in transit (TLS)	✔	✔
LDAP	✔	✔
ACLv2 key permissions	✔	✔
RBAC	✔	✔
Internode encryption	✔	✔
Monitoring and alerting	✔	✔
Logging	✔	✔

Compliance

Redis is engineered to help customers meet security and compliance standards as appropriate for their use cases to keep their information safe. Redis Enterprise is SOC2, HIPAA, ISO207001, ISO27017, and ISO27018 compliant.

For details, visit the customer trust center.

Learn more about Redis Enterprise at Redis.com