

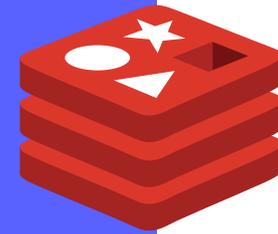


# Top 5 Redis Enterprise features to enhance Azure Cache



# Welcome to the next level of Redis.

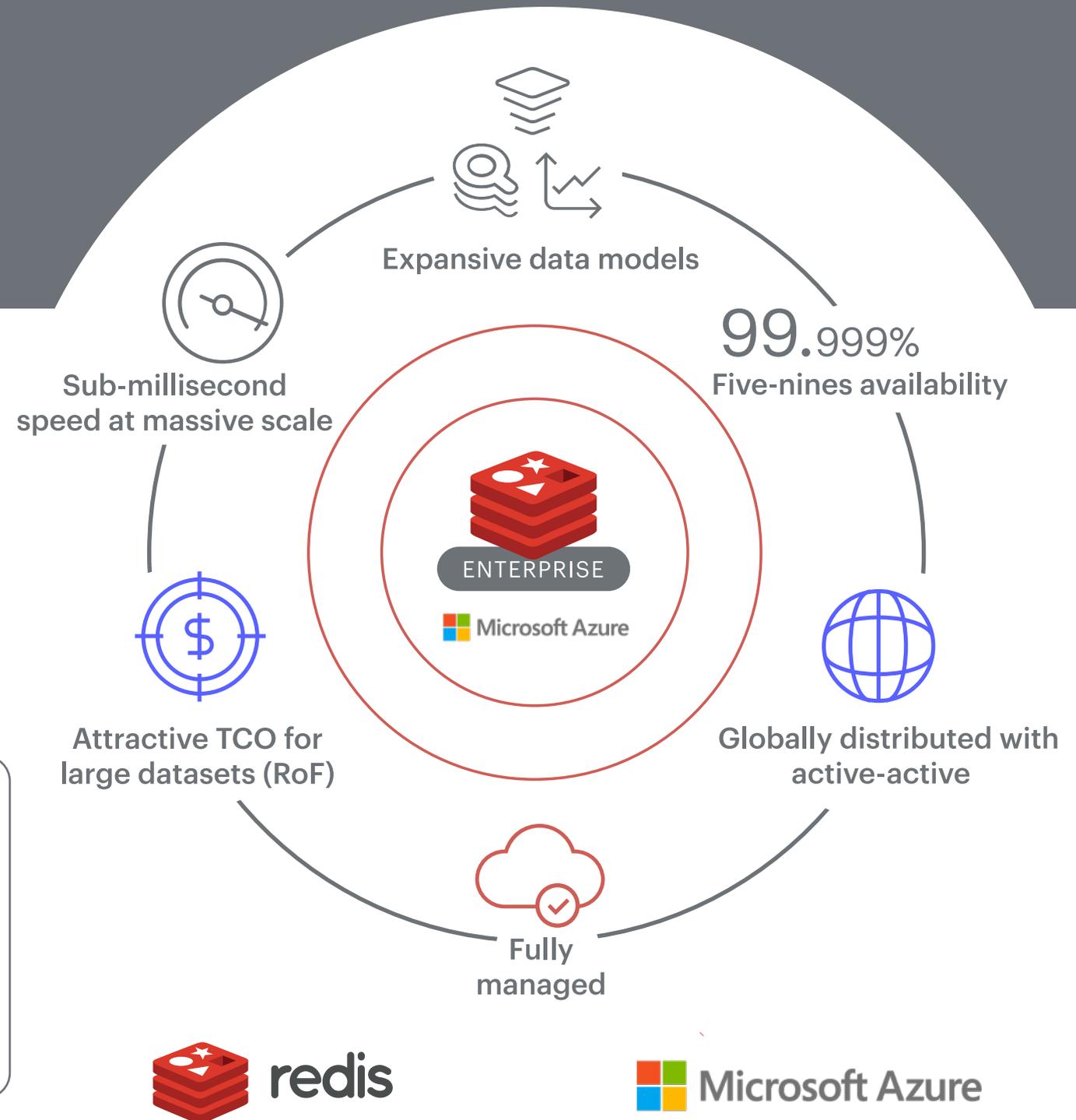
Focus on developing apps and not managing clusters with the most highly-available, scalable Redis service on Azure. Built in partnership between Microsoft, Redis Enterprise on Microsoft's Azure Cache for Redis is integrated seamlessly as a native service.



# Benefits

## Discover unmatched availability and optimized performance.

Get the highest SLA, best performance, and built-in resilience when you run Azure Cache for Redis Enterprise.



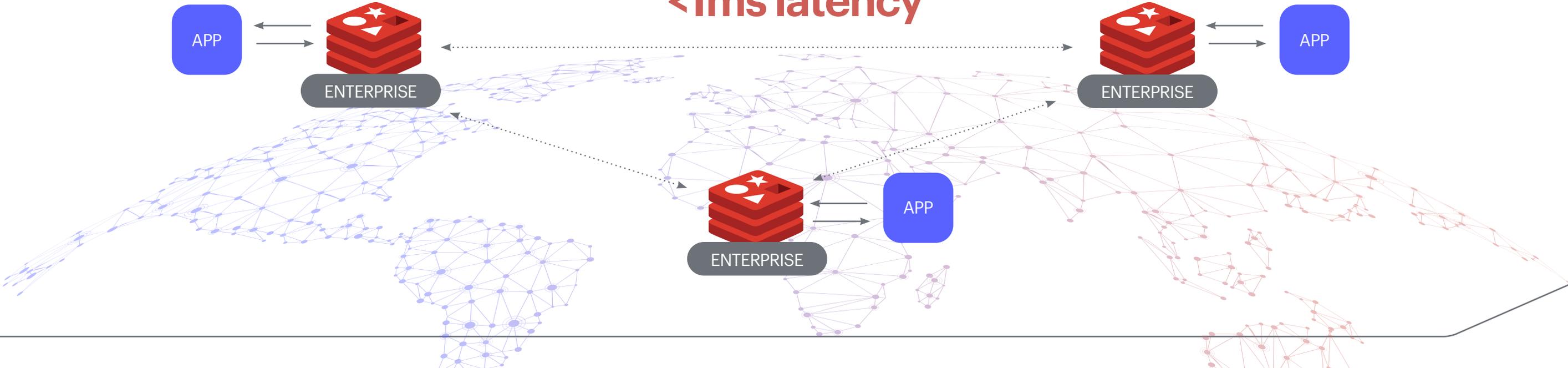
# Active-Active Replication — Worldwide Distribution, Local Latency.

Experience local read and write latency across regions and geographies, while enabling a disaster-proof architecture for geo-distributed applications.

<p>99.999% uptime and virtually instant failover without data loss.</p>	<p>Local latency with global distribution regardless of number of regions or distance.</p>	<p>Seamless conflict resolution for simple as well as complex data types.</p>
---	--	---

Strong Eventual, Casual Consistency

<1ms latency



## Active-Active Replication — Increase security and performance in geo-distributed applications for a better user experience.

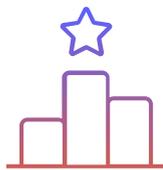
The seamless conflict resolution paired with localized latency across global regions makes managing your database simpler in numerous situations.



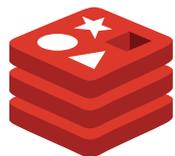
**Fraud detection**



**E-commerce**



**Leaderboards and dashboards**



Sign up easily for Redis Enterprise Tier for Azure Cache

[Let's go](#)

*“The importance of sub-millisecond latency and synchronization across all database instances cannot be emphasized enough.*

*It’s crucial to our core mission and future growth and the fact that Redis Enterprise could address that for us made it a clear winner.”*

**Paul Kurmas**

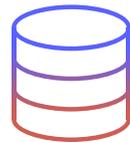
Director of Strategic Product Development, Mutualink

## Redisearch — Powerful & Interactive Search & Indexing.

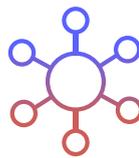
Enhance the performance of search features across applications with up-to-the-minute data, inventory, and insights.



Unified search and analytics using a variety of indexing, querying, and full-text search capabilities.



Fast indexing and ingestion with in-memory data structures implemented in C.



Scale out horizontally and partition indexes over several shards and nodes.



## Redisearch — Powerful & Interactive Search & Indexing.

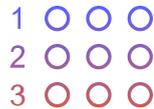
A real-time search engine that runs on your Redis dataset and allows you add interactive search functionality to your apps with insightful analytics for data, content, and documents. [Interested in Redisearch? Details >](#)



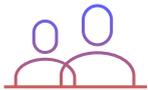
Enterprise search



Real-time inventory



External database indexing



Customer service and insights

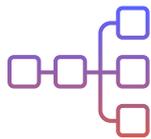


Sign up easily for Redis Enterprise Tier for Azure Cache

[Let's go](#)

## RedisTimeSeries — Easy & Efficient Management of Time Series Data Natively.

Meet the fastest, most integrated option for working with time series data with advanced features to reduce memory requirements without reducing performance.



**Quickly ingest and query millions of events and samples.**



**Execute retention rules and multi-key queries with a few simple commands.**



**Time series data is automatically aggregated and updated.**



**Downsample and compact entire set of time series data.**

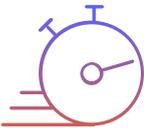
*“We are extremely excited about the added functionality in the Azure Cache for Redis, Enterprise tiers. We know, love, and have used Redis for years as a key component in our industry leading real-time IoT control & monitoring platform. The Enterprise tiers allow us to do more with Redis by leveraging the Redis TimeSeries module to support data collection and analytics from hundreds of thousands of IoT sensors.”*

**Aaron Phillips**  
CEO & President, SitePro

[Read the complete story >](#)

# RedisTimeSeries — Easy & Efficient Management of Time Series Data Natively.

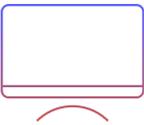
Add a time-series data structure that easily integrates with popular tools including Grafana, Prometheus, StatsD, and Telegraf for visualization, monitoring, and data migration. [Interested in Redis TimeSeries? Details >](#)



Anomaly detection



Telemetry



Application monitoring

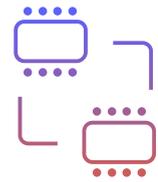


Sign up easily for Redis Enterprise Tier for Azure Cache

[Let's go](#)

## RedisBloom — Faster & Smaller Data Structures with Increased Accuracy.

Meet the fastest, most integrated option for working with time series data with advanced features to reduce memory requirements without reducing performance.



Enable fast processing and constant memory space while keeping the error rate low.



Utilize a reliable and scalable architecture optimized for performance.



Reduce the need for compute and memory for large data sets.

*“We have around 67 services right now and all of them use Redis Enterprise in some way. Without its seamless functioning and automation, we would still be putting an unsustainable amount of effort into infrastructure and operations management. Redis Enterprise has helped our teams focus on innovation and business growth to successfully expand our product portfolio and serve new geographies.”*

**Naren Janakiraman**  
Director of Engineering, FreshWorks

# RedisBloom — Faster & Smaller Data Structures with Increased Accuracy.

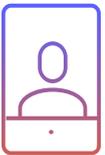
Determine with a high degree of certainty whether an element is a member of a set, the frequency of events in a stream, and frequencies for the top-k items. [Interested in RedisBloom? Details >](#)



Fraud detection



Leaderboards



Advertising



Sign up easily for Redis Enterprise Tier for Azure Cache

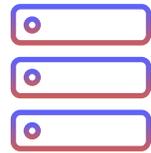
[Let's go](#)

## Redis on Flash — More Data with Fewer Resources and Lower Costs.

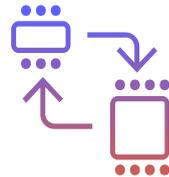
As datasets grow, the amount of DRAM storage used becomes increasingly expensive. Enabling Redis on Flash can significantly decrease cost without affecting performance.



Save costs



Large cache sizes



Paired system

*“We’re leveraging Redis on Flash to store the terabytes of data we flow through Redis per day, which provides significant infrastructure cost savings, in addition to the guaranteed availability and performance SLAs of Redis Enterprise.”*

**Tamir Amram**

Operations Group Lead, BioCatch8

## Redis Cluster — Seamless Expansion & Automated Scalability.

Redis Cluster allows you to automatically split your data across multiple nodes as well as providing some availability during partitions.

- Automatically split your dataset among multiple nodes.
- Continue operations when a subset of the nodes is experiencing failures or are unable to communicate with the rest of the cluster.
- More throughput: increases linearly as you increase the number of shards.
- More memory size: increases linearly as you increase the number of shards.

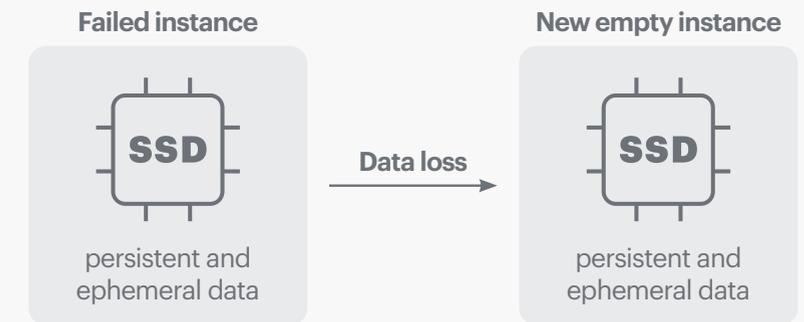
## Data Persistence — Store & Recover Data Without Degrading Performance.

Redis persistence to disk writes data into an existing Azure Storage Account to provide durability and managed recovery. If the primary and replica cache are disabled in a catastrophic event, you can reconstruct the cache using the most recent snapshot or stored write operations — allowing you to rebuild your dataset in case of failure.

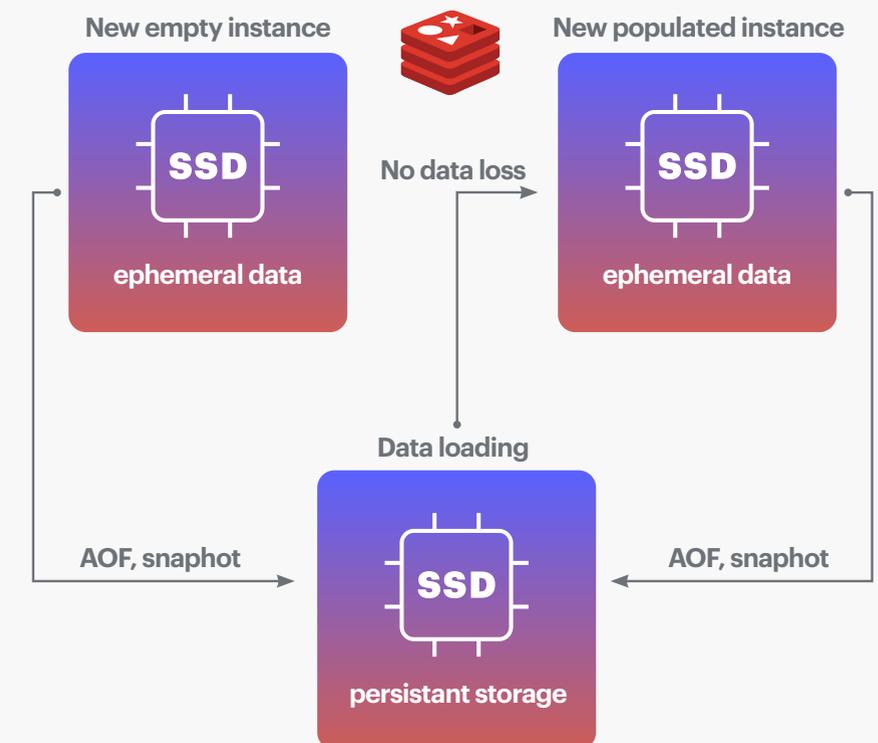
Enterprise tiers provide two modes of persistence:

- AOF (Append Only File) — every write operation is saved to a log that is updated at least once per second.
- Snapshot (RDB) — a point-in-time snapshot of the data is persisted to disk, based on the backup intervals you configure.

### Data-Persistence - The Wrong Way



### Data-Persistence - The Right Way



## Easy to Start. Easy to Use. Easy to Love.

Deploy faster by using a fully-managed service on Azure. With Azure Cache for Redis Enterprise, you can leverage Azure's vast cloud regions, security, and flexibility while optimizing the availability, performance, and extensive data structures offered by Redis Enterprise.

### Develop natively

Enjoy ecosystem support for Azure developer toolset, including Azure Spring Cloud, Azure App Service, Azure Monitor, and more.

### Fully managed

Support is backed by the Microsoft support team, who have a direct line to the experts at Redis if additional assistance is needed.

### Unified billing

Enterprise tier consumption is automatically billed and counts toward your Azure commitment.

### Consumption-based pricing

Only pay for what's required, with no minimum commitments, which helps scale cost during development and reduces overall TCO.

### Easy to start

Starting Redis Enterprise on Azure is as simple as the click of a single button. No need to make adjustments to your current Azure contract. Simply head to the marketplace to get started.



Contact us.

# Ready to start?

Let's go

[REDIS.COM](https://redis.com)

