

# Aerospike Cloud Managed Service

## SERVICE BRIEF

## Ensure always-on, secure operation of Aerospike in your AWS, Azure, or GCP cloud

### Overview

The demands of the always-on, real-time pace of business is forcing companies to quickly develop new data-intensive applications in order to gain or maintain their competitive advantage. This creates pressure to deliver optimized infrastructure which, in turn, is forcing IT operations and resources to the breaking point.

Thus, organizations turn to the cloud to help alleviate such pressures. Nonetheless, businesses still require their applications to act in real-time consistently across billions of database transactions while minimizing their infrastructure costs.

Aerospike Cloud Managed Service enables enterprises to focus on delivering new digital value to their customers instead of spending time managing databases and infrastructure. With our Cloud Managed Service, Aerospike takes the responsibility for delivering and maintaining an optimized deployment of a real-time data platform with predictable performance at scale, all the time, while keeping instance counts down dramatically, even as your business and data grows.

Designed for 100% availability, the data platform receives complete lifecycle maintenance with zero downtime, automatic scalability, monitoring, data isolation, and encryption that delivers predictable performance from terabytes to petabytes.

### Highlights

#### SECURITY BY DESIGN

Aerospike Cloud Managed Service ensures your data is safe and administration is authorized with zero-trust network security, role-chaining cloud identity and access management, database authentication and user management, encryption in transit and at rest, encryption keys, and OS hardening.

#### ALWAYS-ON ARCHITECTURE

The Aerospike Cloud Managed Service helps to ensure predictable performance and data durability throughout your multi-zone cluster architecture while reducing infrastructure requirements.

#### ZERO DOWNTIME OPERATIONS

Aerospike Cloud Operations Center provides 24x7x365 coverage. Receive health and performance reports, with security and auditable governance controls, change requests, and quarterly reviews.

#### DATA PLATFORM OBSERVABILITY

Aggregated Aerospike Metrics and SLA information are pushed to the Aerospike Cloud Console to view high-level health, configuration, and performance.

#### ENTERPRISE-READY DEPLOYMENT

Aerospike Cloud Managed Service delivers real enterprise-grade deployments at any scale with end-to-end data encryption, data compression, strong consistency, and both synchronous and asynchronous data replication.

EROSPIKE CLOUD  
MANAGED SERVICE

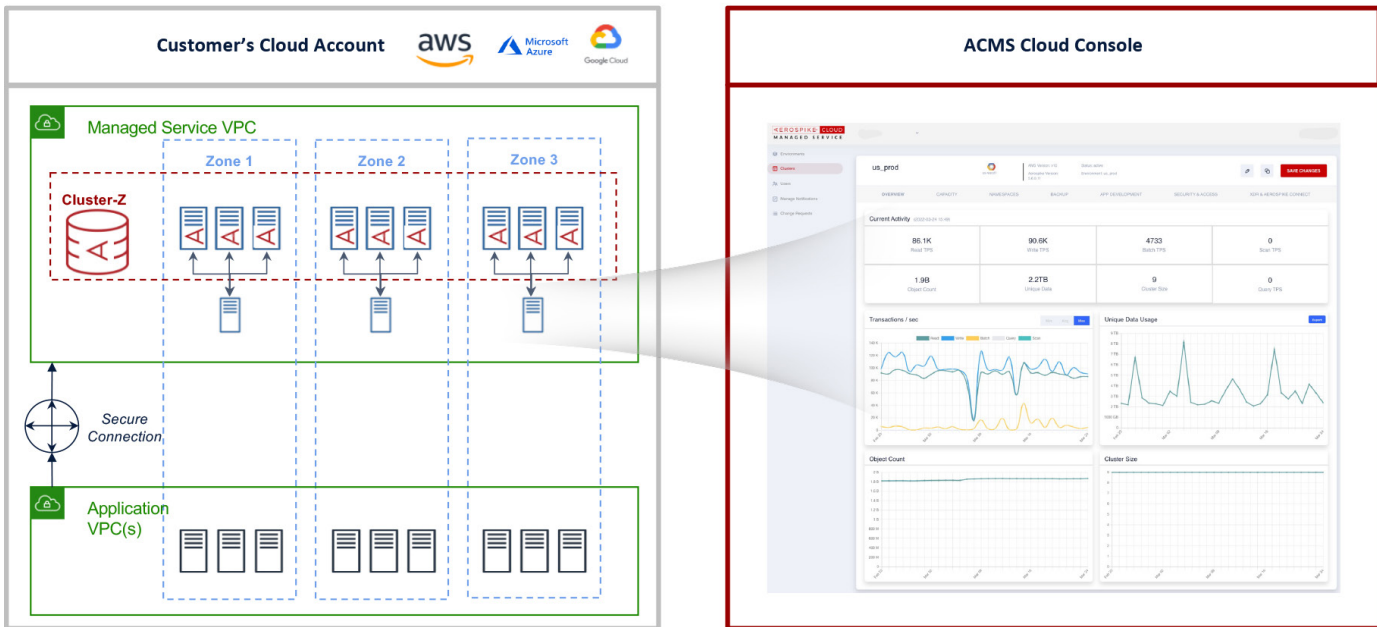


Figure 1: Aerospike Cloud Management Service System Architecture

## Benefits

### Faster time to value

Aerospike Cloud Managed Service is built on years of experience architecting and managing the Aerospike data platform on-premises and in the cloud. Our standards-based approach allows you to leverage these proven architectures to accelerate your product launch.

### Increased organizational agility

Aerospike Cloud Managed Service allows you to focus on aligning your organizational resources with your goals instead of using valuable resources and time to design and maintain your Aerospike deployment.

### Secure

The Aerospike Database comes with a rich set of enterprise security features such as Data Encryption (in motion and at rest), Authentication, Authorization, and Auditing. The Aerospike Cloud Managed Service leverages these features to provide security and operational controls to comply with your audit needs.

### Resilient

The Aerospike Cloud Managed Service combines the reliability of the Aerospike database that achieves uptimes of four nines with high-availability design principles and operating controls so you can be assured that there will be no interruptions to your business.

### Greater flexibility in scaling your digital business

Aerospike Hybrid Memory Architecture™ with All-Flash and Hybrid Flash options, coupled with Dynamic Cluster Management, allows the Aerospike database to scale to petabytes with linear performance as your business and data grows.

### Predictable control of resource and personnel costs

Aerospike Cloud Managed Service provides workload profiling to identify the correct capacity plan and optimized configuration templates which can help customers budget appropriately and avoid unforeseen costs.

## Features & Capabilities

### Security by design

- Zero-trust network security
- Role-chaining cloud identity and access management
- Database authentication and user management
- Encryption in transit, at rest
- Encryption keys
- OS hardening

### Data Platform observability

- Use the Aerospike Cloud Console for cluster monitoring.
- Integrate cluster metrics with your monitoring tools.

### Always-on architecture and design

- Data durability is ensured through multi-zone cluster architecture.

- Workload profiling used to identify the correct capacity plan and optimized configuration templates.
- Encryption in transit and at rest to always protect your data.
- Automated backup and restore plans provide for the continuity of your business.

### Enterprise-ready deployment

- ISO27001 certification
- SOC 2 certification
- Data compression
- Strong consistency
- Synchronous and Asynchronous data replication
- Encryption at rest and in-motion

### Zero downtime operations

- Aerospike Cloud Operations Center provides always-on global coverage 24x7x365.
- Automated cloud pipeline provides repeatable and consistent operations.
- Health and performance reports are available through dashboards.
- Security and operational controls provide auditable governance.
- Frequent runbook execution model for control validation.
- Change Requests made through Cloud Console.
- Scheduled quarterly reviews.
- Follow on engagements available with Client Services for performance or application architecture tuning.

## AEROSPIKE

The Aerospike Real-time Data Platform enables organizations to act instantly across billions of transactions while reducing server footprint by up to 80 percent. The Aerospike multi-cloud platform powers real-time applications with predictable sub-millisecond performance from terabytes to petabytes of data with five nines uptime with globally distributed, strongly consistent data. Applications built on the Aerospike Real-time Data Platform fight fraud, provide recommendations that dramatically increase shopping cart size, enable global digital payments, and deliver hyper-personalized user experiences to tens of millions of customers. Customers such as Airtel, Experian, Nielsen, PayPal, Snap, Wayfair and Yahoo rely on Aerospike as their data foundation for the future. Headquartered in Mountain View, California, the company also has offices in London, Bangalore and Tel Aviv.

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