Solution Brief

VAST for Cybersecurity

A Modern Cyber Lakehouse for Cost & Scale

Security Information and Event Management (SIEM) systems are the backbone of enterprise security, but they're facing a crisis of cost and scale. As the volume of security data continues to explode, organizations are forced to make a difficult choice: pay exorbitant fees to retain everything or delete valuable historical data. This leaves a critical gap in threat hunting, compliance, and long-term analysis.

The VAST AI Operating System (AI OS) provides a modern, cost-effective Cyber Lakehouse that complements your existing SIEM. It delivers a pragmatic approach for managing large-scale cyber and observability data, freeing you from the economic and operational constraints of traditional platforms. Instead of moving data across disparate systems, the VAST AI OS consolidates your archives, databases, and analytics into a single, high-performance platform.



Why VAST

Unified Data Management

Consolidate all security data—logs, alerts, and vectors—on one platform to eliminate silos.

Scalability for Threat Data

Store and analyze years of security data, eliminating the need to delete valuable historical context.

AI-Ready Cyber Infrastructure

An all-flash design with integrated vector search for advanced AI-powered threat hunting.

Automated Security Pipelines:

Event-driven triggers and serverless functions streamline data ingestion, enrichment, and response.

A Modern Approach to Security Data Management

The VAST AI OS is a strategic solution that helps your organization solve the SIEM cost and scale crisis. By providing a modern cyber lakehouse, it empowers security teams to operate more effectively.

- **Complement Your SIEM for Cost Savings:**
  Use your existing SIEM for what it does best, real-time alerting on "hot" data. Offload the rest of your security logs and telemetry—the "warm" and "cold" data—to the VAST AI OS, reducing your SIEM licensing costs.
- **Keep All Your Data:**
  The VAST DataStore provides all-flash performance with the economics of an archive tier. This means you can store 100% of your security data for years, eliminating blind spots and enabling comprehensive historical threat hunting and compliance audits without operational burden or data deletion.
- **Accelerated Analytics at Scale:**
  The VAST DataEngine brings powerful analytics capabilities directly to your data. Run ad-hoc SQL queries over petabytes of historical logs using managed engines like Trino and Spark. This turns queries that once took hours into results available in seconds, without the cost or complexity of ETL.
- **Simplify Workflows:**
  The VAST Event Broker acts as a central ingestion point for streaming data, simplifying your data pipelines. Use DataEngine lightweight, serverless functions to automate tasks like log parsing, enrichment, and initial alert triage, which reduces analyst overhead.
- **Unified and Simplified Platform:**
  The VAST AI OS consolidates logs, events, telemetry, and structured data onto one platform. This unified approach eliminates data silos and the need for complex, tiered architectures, streamlining your security operations.

About VAST Data

VAST Data, the AI operating system company, is paving the way for the next era of artificial intelligence. The VAST AI Operating System provides a unified system for a simple, scalable, and accelerated path from raw data to deep insights. By integrating storage, database, and compute functions, VAST eliminates infrastructure complexity, allowing data scientists and AI developers to focus on innovation. Since its launch in 2019, VAST has become the fastest-growing data infrastructure company in history.

Looking to simplify your data center and unlock insights from all of your data?

Contact us at www.vastdata.com

A Strategic Foundation for a Modern SOC

As organizations struggle with the scale and cost of security data, a modern architecture is a necessity. The VAST AI OS delivers a single, unified platform where storage, databases, and compute converge. By providing a cost-effective, scalable, and pragmatic foundation for your security analytics, VAST allows you to stop worrying about data retention and start focusing on what matters: protecting your business.

Scan here to learn more.

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