

The VAST Data Platform

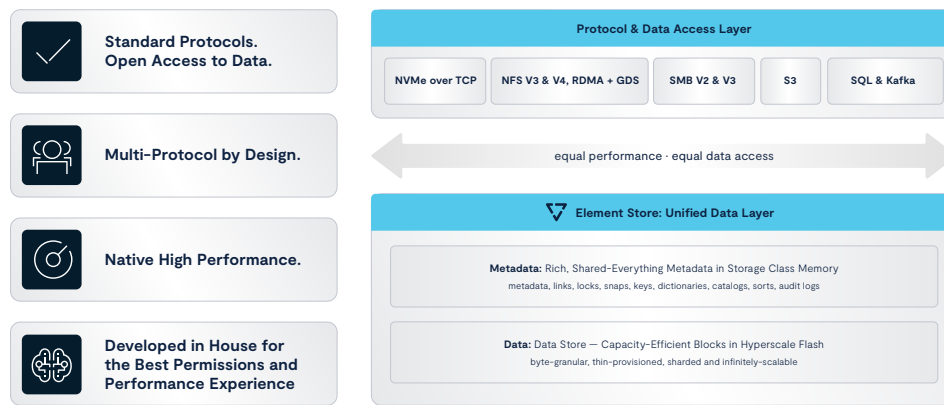
A Unified Data Cloud.



The VAST Data Platform delivers a comprehensive data cloud experience by unifying what traditional cloud providers offer as separate services into a single, cohesive platform. Unlike conventional clouds that provide block storage, file storage, object storage, and database services as discrete offerings, VAST integrates all these capabilities into one unified system that seamlessly spans edge, core, and cloud environments.

The VAST Data Element Store

Our Multi-Protocol Data Structures



Core Cloud Services in a Unified Architecture

Multi-Protocol Data Services

The VAST Data Platform functions as a true data cloud by consolidating multiple storage protocols and data services while supporting NFS, SMB, S3, and NVMe over TCP protocols within a single architecture. This allows consumption from one platform without the complexity of managing multiple systems.

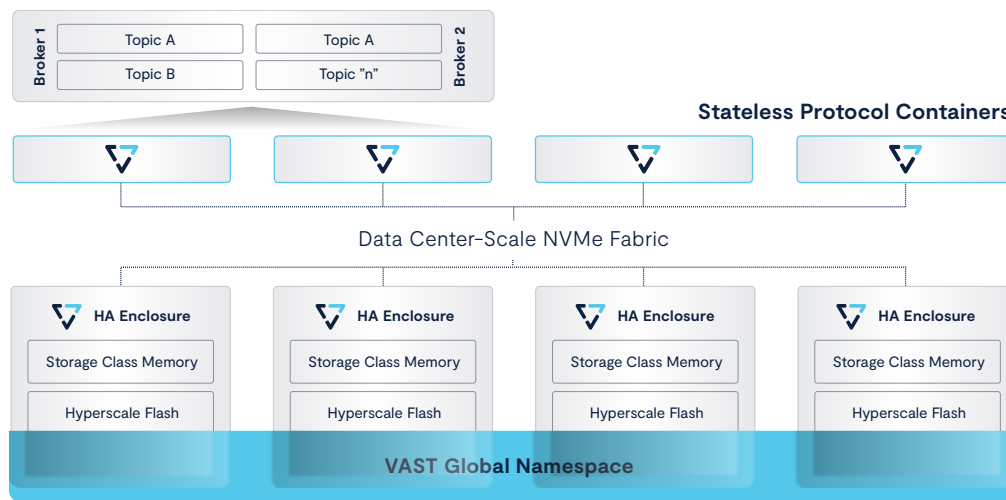
Real-Time Analytics and Streaming Data Services

VAST delivers database services directly within its platform through VAST DataBase, providing database functionality alongside support for unstructured data. The platform automatically organizes structured and unstructured data upon ingestion, enabling immediate analysis without the complex ETL processes typically required when moving data between cloud services. The VAST Data Platform also includes a Kafka-compatible event streaming engine, eliminating the need for separate streaming infrastructure. Organizations can consume streaming data services without provisioning and managing independent Kafka clusters, similar to how cloud providers offer managed streaming services.

Cloud-Like Consumption Model with Enhanced Integration

Global Namespace Across Environments

The platform creates a unified global namespace that serves as the foundation for its cloud-like experience. Unlike public clouds that often create data silos between services, VAST's global namespace ensures that all data, regardless of type or location, is accessible through the same management plane.



Seamless Data Mobility and Management

Organizations can immediately access on-premises data in public clouds without complex migrations or duplications, effectively delivering hybrid cloud functionality within its unified architecture, eliminating friction associated with moving data between cloud services and environments. Instead of requiring specialized knowledge for different storage systems and protocols, VAST offers a consistent management experience across all data types and services to provide efficient use of data resources.

Advanced Cloud Security

Comprehensive and Compliance-Ready Framework

The VAST Data Platform incorporates advanced security features that satisfy the data pillar controls within Zero Trust Architecture requirements, aligning with CISA's Zero Trust Maturity Model. The platform meets rigorous compliance standards including NIST SP 800-53 Revision 5 controls and DISA STIG for Redhat Linux. It's approved and listed on the DODinAPL, making it suitable for high-security environments that require cloud-like services with enhanced compliance capabilities.

Advanced Access Controls

Like sophisticated cloud platforms, VAST implements Attribute-Based Access Control (ABAC) to enforce granular permissions across its unified data services. This enables dynamic, fine-grained control over who can access specific data resources, similar to IAM policies in public clouds but with seamless integration across all protocols to include SMB, NFS, S3, and SQL.

Architecture for a Cloud Experience

The platform's revolutionary Disaggregated, Shared-Everything (DASE) architecture enables it to deliver cloud-like services with superior integration.

- Decouples compute and storage resources to enable independent scaling similar to cloud services
- Eliminates east-west traffic between nodes, allowing parallel operations at scale
- Consolidates diverse data types (files, objects, tables, streams, vectors) under a unified namespace
- Provides cloud-like elasticity without traditional infrastructure constraints

Transforming Enterprise Data Management

By unifying what public clouds offer as separate services into a single, integrated platform, VAST creates a true data cloud experience that simplifies how organizations consume and leverage data services. This approach eliminates the complexity of managing multiple systems while enabling new levels of performance, efficiency, and insight generation across distributed environments.

The VAST Data Platform's cloud-like approach to data services transforms data infrastructure by providing the flexibility and service diversity of public clouds with the enhanced integration, performance, and security benefits of a unified architecture. Organizations can build and run modern data applications with the simplicity of cloud consumption models while maintaining complete control over their data.