

The Data Platform for the AI Era



The VAST Data Platform delivers all-flash file and object data services for the most demanding workloads with efficiencies that drive archive economics. VAST eliminates the fundamental limitations of legacy systems, providing exabyte-scale with unprecedented ease of use and resilience.



Past

VAST

VAST's architecture is designed for modern data workflows, where data is consolidated into a single, high-performance tier. All data is available in real-time to fuel AI-enabled applications on clusters that support multiple generations of infrastructure, without the forced migrations of legacy systems.

The Principles of the VAST Data Platform

Unlock Fast Access to All Data

Unleash insights and breakthroughs with real time access to all data

Break the Cost/Performance Trade-Off

Guaranteed superior data reduction on NVMe infrastructure.

Simplify Cloud-Scale Operations

Streamline operations on a composable flash cloud with advanced QoS.

Simplified Data Pipelines

Efficient operations with multiprotocol flexibility and integrated metadata indexing.

A New Business Model for Modern Infrastructure

VAST Gemini delivers software-only flexibility and enterprise simplicity.

#1 For Analytics
Critical Capabilities Report

Gartner

Challenger
Magic Quadrant™

Gartner

#3 Fastest Growing
North American Company

FT FINANCIAL TIMES

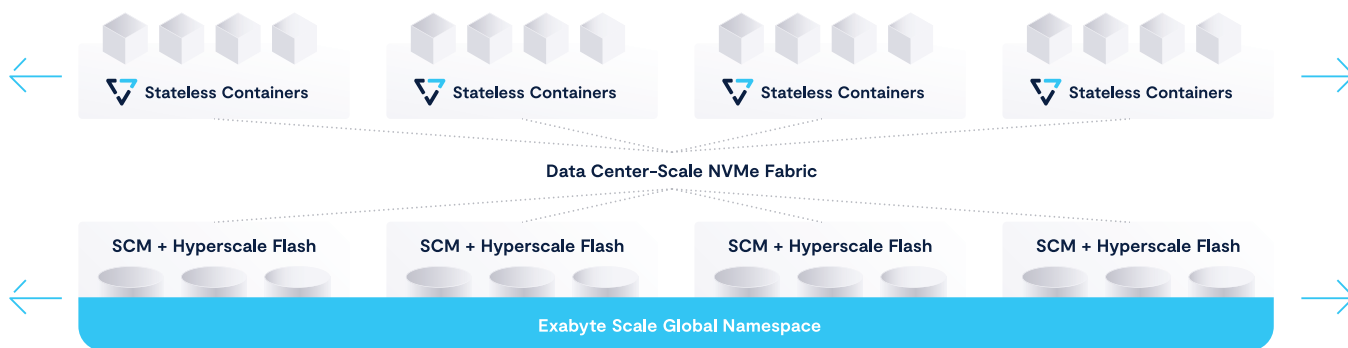
Number 10 Most Innovative
for Data Science

FAST COMPANY



Introducing a New Hyperscale Architecture

Disaggregated, Shared-Everything (DASE)



Disaggregated

Stateless containers are composable, data is always resilient

Shared-everything

No need for cache coherence, massively scalable data services

Radically Efficient

New global efficiency codes to revolutionize NVMe economics

One Platform for all Your Data

Vertical Solutions

- Life Science
- Finance
- Content
- HPC

Backup & Recovery

- COMMAVAULT IBM
- VEEAM VERITAS
- COHESITY rubrik
- model

Big Data & AI

- splunk> elastic
- VERTICA spark
- trino dremio
- TensorFlow PyTorch

Enterprise Infrastructure

- vmware Microsoft Hyper-V
- Red Hat OpenShift openstack
- kubernetes

VAST Data Platform Features at a Glance

NFS V3.0, 4.1

RDMA, GPU Direct™, POSIX ACLs, Kerberos, Krb5p

SMB 2.1, 3 (Resilient SMB)

Stateful file services; stateless servers

S3-Compatible API, HTTPS

Object versioning, lock, life cycle policy, Object tags

Multi-Protocol Namespace

Easily traverse between file & object

Quality of Service

Logical QOS with min/max by path; CNode Pools

VAST Data Catalog

Query unstructured data at any scale, in real-time

Locally-decodable Data Protection

Rapid rebuild, only 2.7% overhead

Access Audit

User Access (NFS, SMB, S3), Admin Audit

Similarity-based Data Reduction

Unprecedented storage efficiency

External Key Management

IBM Key Protect + Thales CypherTrust 2.10

Secure Multi-Tenancy

Cloud-Scale Logical Data Segmentation

Global Snapshot Clones

Instantly writeable and globally accessible