

UNIVERSAL STORAGE FOR

NATIONAL SECURITY

ALL-FLASH HIGH-PERFORMANCE ARCHIVES
TO UNLEASH INSIGHTS FROM ALL DATA



CONSOLIDATE THE STACK. UNLEASH INSIGHT FROM DATA.

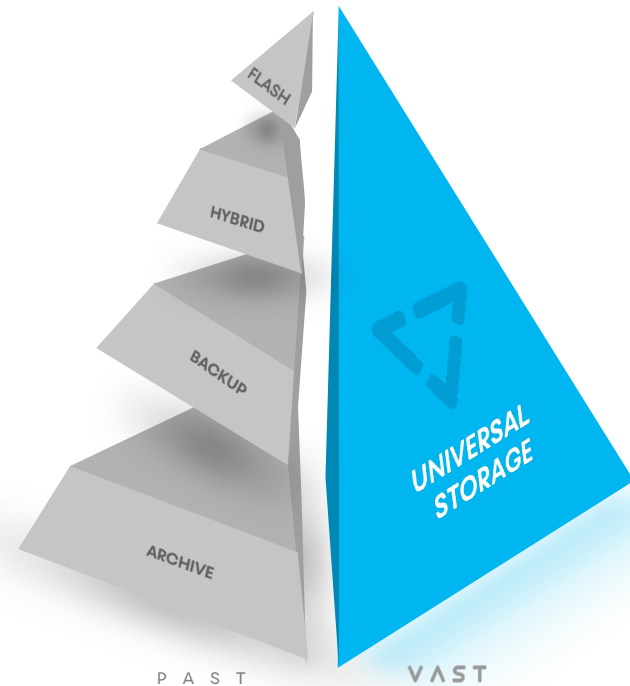
The scale and sophistication of today's national security threats is unlike anything that has ever been encountered before. Advances in communications, data capture and data processing infrastructure have led to an explosion of information that has all been trapped under the weight of slow mechanical media distributed all across the national security complex. Historically, agency customers have been forced to choose low-cost over performance because of this explosion of data and the historically prohibitive cost of all-flash infrastructure. With cost as a critical driver for data storage infrastructure, tight budgets have historically prohibited a mission partner's ability to exploit insights from the vast reserves of multi-spectral data being captured, leaving nations struggling to defend themselves against foreign adversaries.

A FOUNDATIONAL RETHINK TO ACHIEVE EXPONENTIAL ADVANTAGE

In 2015, VAST Data discovered a new approach to building and deploying storage that is aimed at redefining an organization's relationship with data by combining all-flash performance with archive economics... at exabyte scale. Called Universal Storage, this new concept defies classic storage system categorization by combining new storage technologies with a new class of storage algorithms designed to usher in the extinction of the hard drive by eliminating the cost barriers to flash and unleashing insight.

Universal Storage Is a Simple & Scalable Flash Cloud Platform

- A simple, exabyte-scale storage cluster appliance.
- Scale-out File & object storage for analytics, AI, HPC, Backup, etc
- All data is accessible in real-time from one tier of affordable flash



VAST DATA US GOVERNMENT AGENCY CUSTOMERS



OVER 100PB DEPLOYED
ONLY 2 YEARS

UNIVERSAL STORAGE USE CASES



A DATA FOUNDATION FOR NEXT-GEN GEOSPATIAL IMAGERY & LONG-TERM ARCHIVING

New approaches to radar-based (SAR) and multi-spectral image capture have resulted in an explosion of data that needs to be fed into GPU and AI systems that can perform real-time feature extraction at massive scale using modern GeoAI tools.

VAST supports GeoAI missions by making all-flash affordable for all geospatial imagery and supports exascale analysis of data on systems that customers can deploy for up to 10 years.



EXABYTE-SCALE ALL-FLASH DATA LAKE FOR CYBERSECURITY

Organizations are racing to understand and defend themselves against an unprecedented wave of cyber-threats that are challenging critical infrastructure on a daily basis.

Universal Storage is the foundation for the next-gen data lake – massively-scalable S3 and NFS services to support analytics tools and distributed query engines that can process data at 10x the performance and ½ the cost of legacy solutions.



EXASCALE NAS TO SIMPLIFY AND SCALE HPC AND AI RESEARCH COMPUTING ENVIRONMENTS

Simplicity, scalability, and ultra-high performance have never been described in NAS storage architectures... until now. VAST Data's breakthrough DASE (disaggregated shared everything) architecture solves the cost, management, and scalability challenges of NFS storage by making scale-out flash affordable for all of your next-generation HPC, AI, and cluster computing applications.

UNIVERSAL STORAGE CLUSTER

Multi-Protocol Access for 10,000s of X86 and AI Clients: NFS, NFSoRDMA, GPUDirect™, SMB, S3, K8S CSI



Stateless Servers: VAST Containers Are Composable Flash Cloud Controllers



NVMe Fabric: Disaggregates CPUs from SSDs To Achieve New Levels of Scale, Efficiency and Resilience



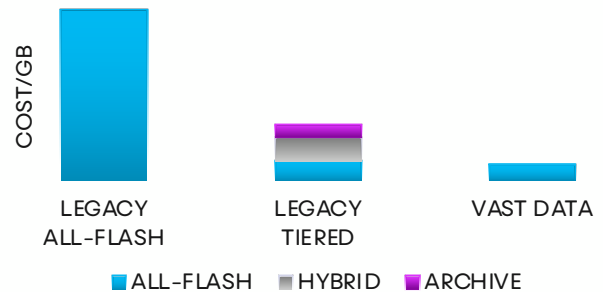
RELEVANT FEATURES

- NAS/S3 for Ethernet and IB
- Multi-Protocol Namespace
- Container-Based with Composable QOS
- Data Snapshots, Replication and Backup
- Sub-Millisecond Read/Write Access
- Distributed, Massively Scalable Metadata
- Accelerations for GPUs and AI Processors
- Revolutionary Data Reduction and Data Protection

PROVEN SECURITY & AGENCY READINESS

- FIPS 140-2 Compatible (AES-256)
- Authorities to Operate (ATO) on DoD networks
- TAA compliant, COTS-based solution
- Nessus Scanned, Fortify Certified

RADICAL SAVINGS TO USHER IN AN END TO THE HDD ERA AND UNLEASH DATA ACCESS



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