Solution Brief

Backup, Restore, and Recover at the Speed of Flash

VAST + COMMVAULT®

All-Flash Backups and Restores at Archive Economics

Traditional, purpose-built backup appliances are HDD-based and struggle to provide the performance you need at restore time, especially at scale. VAST Data and Commvault together provide an all-flash, modern data protection solution that delivers rapid restore at scale for growing, petabyte-level libraries. Until now, customers have never been able to afford a true, all-flash backup architecture because of the wide cost differences between hard drive and flash storage systems. VAST combines QLC flash, revolutionary data reduction, and highly efficient erasure codes to bring flash to price points suitable for backup, allowing customers to combine Commvault's backup orchestration and data management engine with VAST's unified all-flash file and object storage platform. The Commvault validated solution from VAST Data enables massive throughput and lower latency for flash-optimized backups and restores, meeting the most stringent recovery service-level agreements (SLAs) - all at a cost that is comparable to hard drive-based solutions.

Consolidate Backups on VAST Data

Flash-Flash-to-Cloud
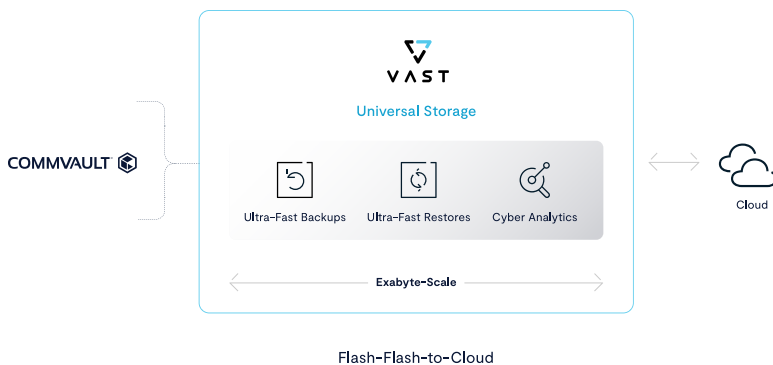
Why VAST?

Exabyte-Scale Backup Libraries
Grow or consolidate backup libraries to exabytescale with confidence using S3 or NFS.

Fast Backup, Faster Restores
Backup to a single VAST appliance at over 18 TB/hr (432 TB/day), and perform parallel restores at 144 TB/hr.

Similarity-Based Data Reduction
Gain up to an additional 1.7:1 data reduction ratio after Commvault (LZO) compression.

Limitless Performance Scalability
Scale to Millions of IOPS and Beyond 1TB/s.

Superior System Utilization
VAST's approach to data-protection breaks the long-standing tradeoff between resilience and cost with just 3% overhead (vs 20%+ with legacy solutions).

About Us

VAST is the data platform for simplicity at scale. VAST engineered the first new scale-out architecture in 20 years to take you beyond the conventional limits of scale, resilience and cost.

Looking to simplify your data center and unlock insights from all of your data? Contact us at hello@vastdata.com

One Universal Platform for all your Data

Organizations spend far too much energy and money moving data throughout a storage hierarchy that is rapidly growing in complexity. With VAST Data, you store everything in a single tier of flash storage that's fast enough for demanding applications, large enough for all of your data, and affordable enough that HDDs are no longer relevant. Our radical flash economics make VAST Data universally applicable for a wide range of applications, including backups and restores using Commvault.
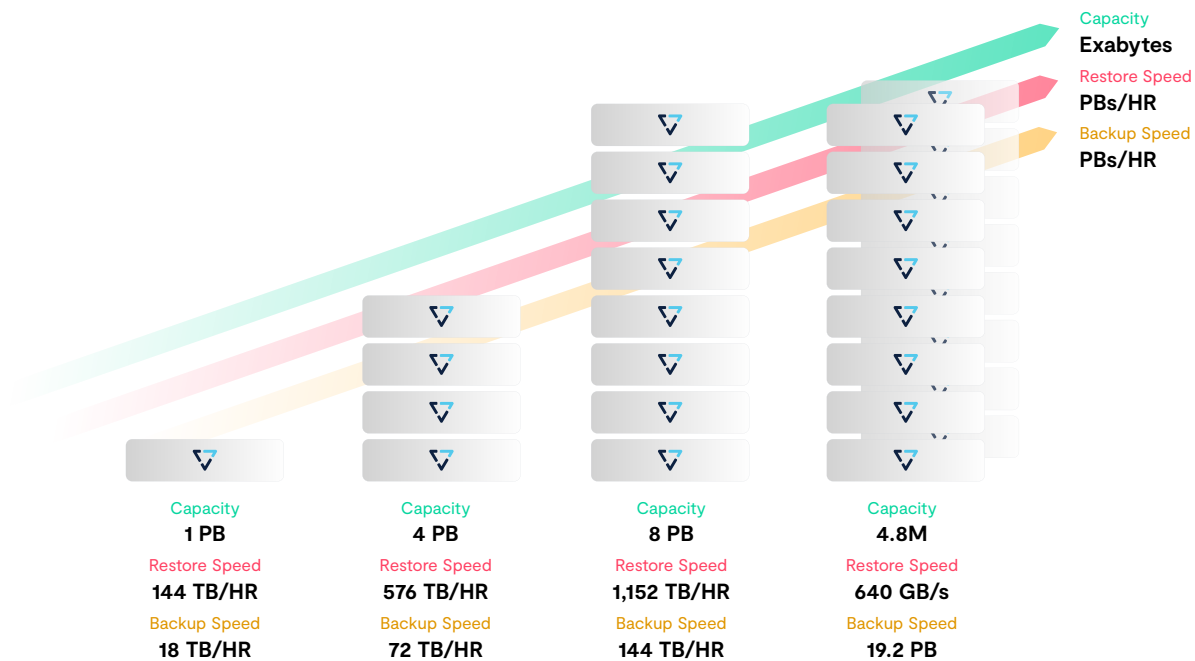
Similarity-Based Data Reduction

VAST's Similarity-Based Data Reduction delivers advanced levels of data reduction where traditional deduplication techniques fail. VAST's data reduction algorithms reduce data in similar blocks down to minimum sized delta blocks by compressing similar blocks together. The result is a best of all worlds approach that brings the effective cost of flash in line with HDD-based systems for backup scenarios without compromising on performance or resiliency.

VAST's Data Reduction in Action

Backup Dataset	Commvault Compression	Aditional VAST Data Reduction	Total Combined
VMware Backup	3:1	1.60:1	**4.8:1**
Unstructured Data Backup	4:1	1.53:1	**6:1**
VMware SQL Server Backup	8:1	1.68:1	**13:1**

Limitless Performance Scalability

	Capacity	Restore Speed	Backup Speed
	Exabytes	**PBs/HR**	**PBs/HR**
	1 PB	144 TB/HR	18 TB/HR
	4 PB	576 TB/HR	72 TB/HR
	8 PB	1,152 TB/HR	144 TB/HR
	4.8M	640 GB/s	19.2 PB

Trusted by Industry Leaders

VAST is trusted by leading companies around the world to leverage a single radically affordable all-flash innovative platform.