

SOLUTION BRIEF



Modernize your
approach to data
management
with a scale-out
infrastructure.

WHY MODERNIZE DATA PROTECTION?

Managing and protecting data is challenging. You may be making it more difficult using legacy solutions that lack the capabilities required for today's modern infrastructures that span on-premises and the cloud. These tools create the following challenges compared to leading data management platforms:

- **Inadequate protection:** Without advanced security features like immutable storage and zero-trust architecture, businesses remain vulnerable to increasing cyber threats, data breaches, and unwanted access or changes.
- **Restricted scalability:** Because scale-up solutions cannot grow as granularly as desired, businesses pay more than necessary for extra storage and licensing. The initial deployment and expansion time are often slow, increasing the time to value the solution provides for the company.
- **Insufficient recovery performance:** Poor backup and restore performance can lead to data loss and delayed recovery times, impacting IT operations and the overall business. These include failing to meet data protection SLAs, including RPO and RTO commitments.
- **Poor cloud integration:** Many scale-up solutions are unable to migrate data to the cloud, or migrating data requires another solution, adding complexity and cost.
- **Reduced resiliency and uptime:** Organizations need backup systems and storage to be constantly available, even during hardware failures and system upgrades. Any downtime can hinder the ability to meet target RPOs or RTOs.

A FRESH APPROACH TO DATA MANAGEMENT AND PROTECTION

By shifting data management and protection to a modern integrated solution that leverages scale-out architecture, you can help transform your environment to be as flexible, resilient, and scalable as public cloud infrastructure. Simple, flexible data protection for all workloads, optimized scalability to quickly grow as needed, all with trusted security and resiliency, allow the replacement of limited and legacy backup tools with a modern data management solution that enables you to protect all your workloads running on-premises, in hybrid cloud, and multi-cloud environments.

89% of companies
are multi-cloud¹

1 in 3 organizations report having
been successfully hit by
ransomware more than once²



WHAT DIFFERENTIATES COMMVAULT CLOUD HYPERSCALE X?

HyperScale X is an intuitive and easy to deploy, scale-out solution that is fully integrated with the Commvault Cloud platform to help enterprises transition from legacy scale-up infrastructures. It provides unmatched scalability, security, and resiliency to accelerate an organization's digital transformation journey to hybrid cloud, container, and virtualized environments. Its flexible architecture allows you to get up and running quickly and grow as your needs demand.

- **High-performance backup and recovery** with automatic load balancing that optimizes the efficiency and performance per node and enables enhanced recovery capabilities. Helps businesses achieve RPO as low as minutes for greater data availability while reducing RTO and minimizing IT and business disruption.
- **Enhanced ransomware protection** that provides multiple layers of immutability across the software, OS, and file system to help prevent protected data from being accidentally or maliciously encrypted, modified, or deleted, helping you recover data in the event of an attack. Prevents high cost and business interruption if ransomware infects source data and protects backups by preventing unauthorized data access.

¹ [Flexera State of the Cloud Report 2023.](#)

² [ESG Research Report, The Long Road Ahead to Ransomware Preparedness](#)

- **Optimized scalability** that supports single-node expansion of a cluster up to 5PB of capacity within a single deduplicated storage pool, avoiding excess costs caused by overprovisioning. Businesses can predictably plan and budget for growth by investing in capacity more granularly and only as needed.
- **Cost-optimized cloud data mobility** with the ability to easily backup, recover, and move data to, from, within, and between clouds natively (no additional solutions required) using policy-driven rules. By utilizing minimal infrastructure requirements in the cloud or on-prem, businesses can effectively reduce costs while taking advantage of lower-cost cloud data storage and infrastructure. Additionally, adopting this approach can help to streamline hybrid cloud data management and significantly reduce the associated administrative overhead.
- **Built-in resiliency** allows the ability to tolerate a node failure or multiple HD failures within a cluster with erasure coding 4+2 and 8+4, providing optimal storage efficiency. By maintaining greater data availability and reducing business disruption through less downtime, companies can benefit from improved service level agreements (SLAs) due to higher resiliency.

STREAMLINE DATA MANAGEMENT AND PROTECTION

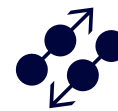
HyperScale X uses a distributed scale-out file system that – when combined with Commvault Cloud software capabilities – provides the following benefits:



Faster time to value
Eliminate identifying, testing, and optimizing the configuration.



Reduced capital costs
Mix/match HW for Ref Design; leverage existing partnerships.



Scalability & flexibility
Purchase the capacity you need with no costly forklift upgrades.



Integrated management
Save IT staff time with centralized management.



Single patch & updates
Deploy one comprehensive patch for software updates.



One point of contact for SW
Get seamless support from Commvault for any software issues.

FLEXIBLE DEPLOYMENT OPTIONS

HyperScale X accelerates hybrid cloud adoption with an integrated solution that delivers comprehensive data protection and management for all workloads, including containers, virtual, and databases, from a single, extensible platform. It is available as an integrated appliance or validated reference design, giving you the flexibility to choose an implementation based on your specific needs and preferences. Both options combine data protection software, operating system, compute, and storage in an integrated pre-configured solution.

Hyperscale X Hardware Partner Appliances

Experience HyperScale X on standardized hardware already present in your data centers. Our latest appliance offering for 4, 12, and 24 drive node types provides more options to meet your needs, capacities, and preferences, with usable capacities ranging from 50 TB to 745 TB.

With pre-built and pre-imaged configurations, ordering and installing appliances is effortless, with the assurance and convenience of a single support call to Commvault for software or hardware issues.

Commvault HyperScale X Appliances

Commvault HyperScale X appliances provide a pre-designed and integrated data protection solution. Commvault HyperScale X Appliances are available in three models with usable capacities ranging from 25 TB to 264 TB in a three-node cluster.

HyperScale X Software

Commvault HyperScale™ X Validated Reference Designs enable you to deploy HyperScale™ X software on the hardware of your choice. Pre-design and validated design configuration with leading partners allow you to use your preferred scale-out infrastructure or leverage your existing volume purchasing agreements.

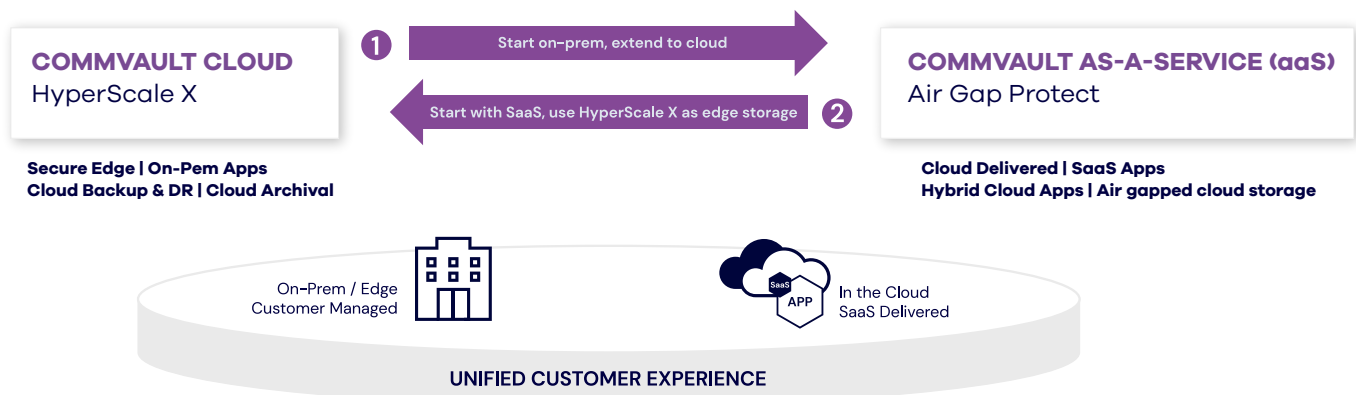
With HyperScale X, you can leverage the full capabilities of Commvault Cloud, giving you access to all the features, functions, and industry-leading integration with applications, databases, public cloud environments, hypervisors, operating systems, NAS systems, and primary storage arrays³. Wherever your data resides, you can view, use, and confidently protect it.

LEVERAGE HYBRID CLOUD WITH HYPERSCALE X

HyperScale X provides two approaches to leverage the hybrid cloud:

- 1 Start on-prem, extend to cloud.** This is for customers who want to protect on-premises data center workloads using HyperScale X, manage their own infrastructure, and extend to the cloud – including Commvault Cloud Air Gap Protect – for secondary and/or air-gapped copies of data.
- 2 Start with SaaS, use HyperScale X as edge storage.** This approach is for customers who want the simplicity of SaaS data protection but want to deploy HyperScale X at the edge, providing local air-gapped copies for faster recovery and lower costs.

Regardless of which implementation option you choose, Commvault delivers a unified customer experience through the Commvault Cloud Platform.



³ <https://www.commvault.com/supported-technologies>

To learn more, visit [commvault.com](https://www.commvault.com)