Commvault

# Customize and modernize your approach to data protection with on-premises cyber resilience solutions.

Commvault®

## INTRODUCTION

In a world where data is growing exponentially, workloads are moving across hybrid environments, and cyber threats are increasingly sophisticated, many organizations are left patching together legacy backup tools that fall short on performance, scalability, and resilience.

Ransomware continues to be an increasing threat, with 88% of organizations experiencing one or more attempted ransomware attacks within the last 12 months.[1] In fact, 1 in 3 organizations reports having been successfully hit by ransomware more than once.[2] With 44% of cybersecurity breaches involving ransomware[3], it's essential for businesses to establish a cyber resilience plan that includes effective backup and recovery processes.

### Delivering Cyber Resilience

Cyber resilience is not just about storing data—it's about protecting it, enabling rapid availability, and being able to recover it at speed. Commvault has changed the playing field with simple, flexible data protection for a wide range of workloads, offering configurable capacity solutions designed with trusted security and resiliency. This allows 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.

With the HyperScale family, Commvault has defined a suite of solutions that boldly spans a broad spectrum of enterprise data protection needs from small businesses and remote edge locations to high-performance, multi-petabyte enterprise data centers. Whether your focus is cost-efficiency, simplicity, flexibility, or high performance, there's a HyperScale solution designed for your needs.

## WHY MODERNIZE DATA PROTECTION?

Managing and protecting data is challenging, especially with today's data intensive workloads and environments. You may be making it more difficult by using legacy systems and solutions that lack the capabilities required for today's modern infrastructures that span on-premises and the cloud.

Outdated tools create the following challenges compared to leading data management platforms: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.

- **Capacity constraints:** Many legacy configurations are burdened with over-provisioned capacity without the flexibility to optimize the amount of storage to specific needs. The initial deployment effort is often slow, and utilization may be low, 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 legacy 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, particularly during hardware failures. 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 offers flexible architecture options, you can help transform your on-premises or hybrid cloud environment to be as flexible, resilient, and scalable as public cloud infrastructure. HyperScale provides simple, flexible data protection for all workloads with optimized configurability to grow as needed, all with trusted security and resiliency through a Commvault-provided software image. This enables you to replace limited and legacy backup tools with a modern data management solution that helps to protect all your workloads running on-premises, in hybrid cloud, and multi-cloud environments.

Maintain control over critical business data and applications with Commvault HyperScale. Essential data can be stored on premises to help you meet regulatory and compliance requirements and enable rapid recovery. On-premises data protection generally offers greater security control and better performance than cloud-based options.

## FLEXIBLE DEPLOYMENT OPTIONS

The Commvault HyperScale family provides an intuitive and easy way to deploy backup and recovery that is fully integrated with the Commvault Cloud platform to help enterprises transition from legacy infrastructures. It offers unmatched scalability, security, and resiliency to accelerate an organization's digital transformation journey and enables hybrid cloud adoption with a flexible architecture that allows you to get started quickly and grow as your needs demand.

Accelerate and simplify cyber resilience with the Commvault HyperScale solutions that can deliver:

- Simple, flexible data protection with built-in ransomware protection for diverse workloads including AI, containers, virtual machines, and databases
- Support for fast backup and recovery with on-site data storage, which can also help meet compliance requirements
- Optimized capacity and cost options to meet the needs of organizations of all sizes

### HyperScale Software Platform

Commvault provides the HyperScale software for protecting your data with backup and recovery capabilities, starting with zero-trust security built into the Linux-based operating system, along with an integrated firewall and encryption. Data is protected and immutable with a multi-layered defense across the OS and software enabling built-in ransomware protection with intelligent monitoring that detects data anomalies and alerts users. The pre-configured software image makes it fast and easy to get your new HyperScale system up and running, and automated updates managed by Commvault keep it current with the latest fixes and enhancements.
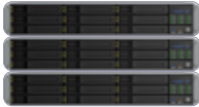
Commvault HyperScale software can be deployed on the hardware of your choice, selected from the validated partner configurations noted for each product. Our pre-defined validated design options with leading partners allow you to use your preferred hardware infrastructure or leverage your existing volume purchasing agreements.

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

## ONE PLATFORM, THREE TAILORED SOLUTIONS

To address the breadth of data environments and deployment needs across organizations, the HyperScale family includes three offerings:

- HyperScale Edge: Capacity-optimized, economical, and ideal for SMB and ROBO/edge use cases
- HyperScale X: Versatile enterprise-grade platform with scalability and operational simplicity
- HyperScale Flex: High-performance disaggregated architecture for large, dynamic, multi-PB workloads

| HyperScale Edge | HyperScale X | HyperScale Flex |
|---|---|---|
| Up to 200TB | 100TB to 2.5 PB | 1PB to multi-PBs scale |
| • Made for remotes sites, retail stores, distribution centers, remote offices, small to mid-size orgs<br>• Cost-optimized with fixed capacity single-node configuration<br>• Flexible RA options — select configuration from validated partners | • Built for mid-size to large enterprise data protection<br>• Scale-out storage pool with Commvault File System<br>• Deduplication, load balancing, expandable<br>• Semi-flexible RA options via validated partners<br>• Fixed appliance options available | • Designed for orgs with large datasets and intensive workloads<br>• Resilient compute with minimum 2 nodes<br>• Scalable for multi-PB needs with external storage<br>• Appliance-like experience managed by partners |

Together, they provide an intelligently designed continuum of data protection solutions to address diverse capacity, scalability, performance, and price point requirements, to help meet customers wherever they are and expand as their needs change. With three HyperScale solutions to choose from, select the configuration, capacity, and architecture that best meets your performance, cost, and capacity targets.

## HyperScale Edge: Lightweight Resilience for Remote and Edge Sites

As more data is generated at remote offices and edge locations, these environments have become lucrative and vulnerable targets for cyberattacks. With 75% of enterprise data expected to be created outside traditional data centers by the end of 2025[4], much of it at the edge, data protection must be put in place to help prevent business disruptions. HyperScale Edge addresses this need by providing an easy to deploy solution for validated reference architecture hardware platforms.

This flexibility enables you to determine the best configuration to meet your specific capacity and cost needs while having confidence that the server complies with Commvault's technical specifications. This single-node, fixed-capacity solution can be set up quickly at remote locations or in small and medium-sized businesses with up to 200TB of data to manage.

- **Ideal For:** Retail stores, branch offices, distribution centers, SMB
- **Form Factor:** Single-node server with fixed capacity storage pool
- **Key Benefits:** Simple to deploy, economical, resilient local backup
- **Use Case:** Localized data protection where space and IT resources are limited

## HyperScale X: Integrated Simplicity and Enterprise-Scale Performance

HyperScale X is designed to simplify the protection of hybrid-cloud enterprise data and applications. Powered by our proprietary file system technology, HyperScale X is an integrated, hyper-converged, scale-out solution that can start small and scale out elastically as data needs increase. It provides unmatched scalability, security, and resiliency to accelerate an organization's digital transformation journey as they move to hybrid cloud, container, and virtualized environments.

To support on-premises enterprise data centers, HyperScale X 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 server options combine Commvault's data protection software and operating system with compute and storage in an integrated solution.

- **Ideal For:** Mid-size to large enterprises with on-premises and hybrid workloads
- **Form Factor:** Minimum 3-node scale-out appliance or reference architecture
- **Key Benefits:** Expandable storage pool, load balancing across nodes
- **Use Case:** Core backup and recovery for virtual, physical, and cloud workloads

## HyperScale Flex: Disaggregated Storage for High-Capacity Environments

Many organizations are already managing petabytes of data for a single workload—and with AI adoption accelerating, the data footprint is expected to skyrocket. It's not just about storing data—it's about securing it, making it rapidly available, and enabling recovery at speed. Legacy backup systems were not designed for this kind of scale, performance, or resilience.

HyperScale Flex is designed to deliver greater flexibility and efficiency without sacrificing the simplicity Commvault customers expect. HyperScale Flex accelerates backup and recovery performance. By leveraging hyperconverged data protection servers with external, immutable backup storage, you can scale storage and performance independently to rapidly adapt to new technologies and workloads. HyperScale Flex empowers you to meet evolving needs with a future-ready, high-performance platform that makes cyber resilience simpler and more scalable than ever.
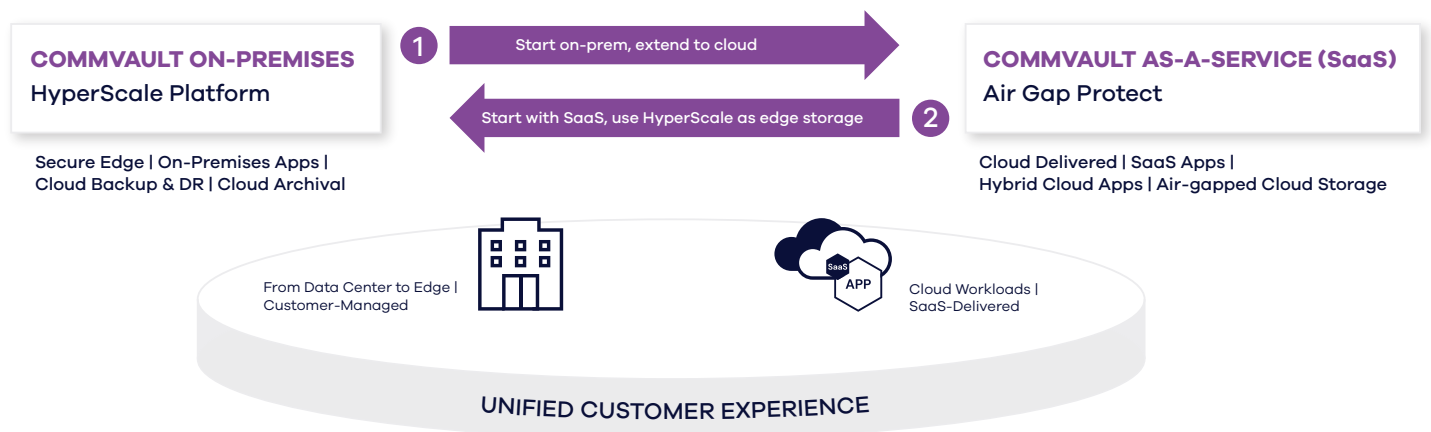
- **Ideal For:** Large data-intensive workloads, such as healthcare and financial services
- **Form Factor:** Disaggregated 2-node resilient setup with external storage
- **Key Benefits:** Highly flexible and scalable for multi-petabyte capacity configurations
- **Use Case:** Mission-critical data centers with strict performance and scale needs

## LEVERAGE HYBRID CLOUD WITH HYPERSCALE

HyperScale solutions provide two approaches to leverage the hybrid cloud:

1 **Start with on-premises backup, then extend to cloud.** This is for customers who want to protect on-premises data center workloads, using HyperScale within their own infrastructure, and extend to the cloud, using Commvault Cloud Air Gap Protect for secondary and/or air-gapped copies of data.

2 **Start with SaaS, then use HyperScale for on-premises secondary storage.** This approach is for customers who want the simplicity of SaaS data protection but want to deploy HyperScale 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.

**COMMVAULT ON-PREMISES**
HyperScale Platform

Start on-prem, extend to cloud

Start with SaaS, use HyperScale as edge storage

**COMMVAULT AS-A-SERVICE (SaaS)**
Air Gap Protect

Secure Edge | On-Premises Apps |
Cloud Backup & DR | Cloud Archival

Cloud Delivered | SaaS Apps |
Hybrid Cloud Apps | Air-gapped Cloud Storage

From Data Center to Edge |
Customer-Managed

Cloud Workloads |
SaaS-Delivered

UNIFIED CUSTOMER EXPERIENCE

## REACH FOR CYBER RESILIENCE WITH HYPERSCALE

Legacy backup systems are no longer sufficient in the face of rising cyber threats, diverse work-loads, and hybrid cloud complexity. The HyperScale family empowers organizations to:

• Simplify deployment and scaling with modular, secured, and hardened architecture

• Protect data with built-in immutability and ransomware protection

• Improve RPOs and RTOs with full automation

• Streamline operations with a unified control plane and policy engine

With native integration into Commvault Cloud and support for workloads across SaaS, cloud, containers, and traditional infrastructure, HyperScale solutions offer powerful cyber resiliency, efficiency, and simplicity, whether deployed in the data center, at the edge, or in the cloud.

[1] Ponemon Institute. *The Global Cost of Ransomware Study 2025*. Ponemon Institute, 2025.
[2] ESG Research. *The Long Road Ahead to Ransomware Preparedness*. ESG Research Report, Mar. 2022.
[3] Verizon. *2025 Data Breach Investigations Report*. Verizon, 2025.
[4] Gartner. *What Edge Computing Means for Infrastructure and Operations Leaders*. Gartner 2018.

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