

One step ahead of ransomware

Immutable backup intelligence and data protection with HPE, Commvault, and iTernity



iTernity iCAS FS Scale-Out Storage Platform

Provides easy integration and full protection from ransomware of Commvault backups with the following benefits:

- S3 Object Lock that protects backup data from encryption by malware
- Fast and reliable restore from an on-premises backup target
- 53% lower TCO and 61% less time to manage the storage platform compared to public [cloud storage](#)
- Fully managed storage platform; no efforts for the IT department
- Start small (starting at 20 TB) and scale without limits
- Seamless solution, easy to deploy

Commvault Backup and Recovery

Delivers a comprehensive, scalable solution to quickly protect, recover, and manage data wherever it lives—spanning leading hypervisors; and physical, virtual, and cloud environments. This single data platform helps eliminate the hassle of multiple stand-alone point solutions and silos of data created, so IT teams and users can quickly recover and leverage data for increased productivity, efficiency, and lower costs.

Today's ransomware attacks often manipulate backup data in the first step before encrypting live data and demanding the ransom. As a result, data cannot be restored as the backup has been corrupted in advance.

A modern backup solution must consider the complete architecture from backup software to storage. The aim is to avoid an error-prone infrastructure patchwork, minimize the attack surface, protect backup data from changes, and ensure a fast recovery.

In the end, the point is to be one step ahead of ransomware and resist ransomware demands.

Business challenges

1. **Security:** Malware, insider attacks, data loss, and system failures are causing concerns for IT managers and forcing IT departments to look for secure means that effectively protect their data and infrastructures.
2. **Cost:** The cost and effort of repairing damage after a ransomware attack or a natural disaster exceed the cost of preventive protection. Yet data protection must be designed to be highly cost-effective, without overburdening the IT department.

3. **Complexity and data growth:** Considering the rapidly increasing data volumes, the complexity of IT infrastructures and the shortage of IT specialists' efficiency and simplicity are becoming the central factors in the selection of a backup solution.

Solution and key benefits

Hewlett Packard Enterprise, Commvault, and iTernity help you protect your data against ransomware, natural disasters, and loss.

iTernity iCAS FS is a validated S3-compatible object storage library for Commvault based on HPE Apollo servers. This combination provides future-proof and scalable backup intelligence for your business-critical data.

• Increase security, reduce risk

HPE, Commvault, and iTernity provide resilient ransomware protection including built-in threat and anomaly detection along with end-to-end data security with encryption. Object Lock provides immutable backup copies to protect against ransomware.

Solution brief

iTernity and Commvault participate in HPE Complete program that provides:

- **Completeness**—Enables the acquisition and simplifies the integration of best-in-class third-party products that complement and complete HPE solutions to complex customer problems. Through HPE, customers get the benefits of a complete infrastructure solution, validated and supported by HPE.
- **Convenience**—HPE Complete engineering creates and maintains HPE and third-party product integration and sizing guides and creates unique, easy-to-order hardware configurations specifically designed and validated for use with third-party solutions. These solutions come with the convenience of being on one HPE purchase order as either a direct purchase or HPE GreenLake pay as you go.
- **Confidence**—All third-party solutions have continuous HPE oversight and are ordered through long-established and trusted HPE. The HPE Complete offerings have been through the HPE Complete Assured compatibility and interoperability validation process, which helps ensure solutions work in the HPE ecosystem at the time of deployment and into the future.

Additional WORM protection for other business data, for example, archive data. The data immutability prevents encryption and deletion while providing a clean copy for reliable recovery.

- **Lower total cost of ownership**
iTernity lowers total cost of ownership (TCO) by 53% compared to public cloud storage and reduces the time to manage by 61%, with no extra licenses for WORM and Object Lock functionalities.¹ Commvault improves productivity (31%) and reduces cost and recovery time (40%+) with comprehensive data protection.²
- **Reduce complexity**
Managed services take care of the backup target; there is no need for additional operational costs. Rely on one storage platform for multiple use cases while Commvault provides simple, comprehensive backup and archiving from a single extensible platform and user interface.

The iCAS FS Scale-Out Storage Platform offers enormous synergy effects in terms of storage, availability, and protection of your business-critical data. You can consolidate your backup storage, archive, and have long-term storage while reducing your management overhead and complexity. iCAS FS is a validated S3-compatible object storage library for Commvault and thus the perfect backup target for Commvault backups.
- **Scale without limits**
Start small and grow as needed, from one to many nodes. iCAS FS is a scale-out platform for backup, archive, and business-critical data of all kinds. The software-defined storage scales without limits starting at 20 TB and one node, and impresses with low TCO, great ease of use, and high flexibility. Combining Commvault with iTernity provides a scalable, secure, and flexible backup solution that meets the long-term data protection needs of any organization and provides a cost-effective way to solve today's backup storage challenges.

• Meet data protection objectives

An industry-leading breadth of workload coverage for on-prem, virtual, physical, application, databases, cloud, SaaS, and more. Fast backup and restore from the iCAS FS backup target to meet your RPO/RTO. Trusted recovery, including granular restoration of data and applications, allows you to quickly restore an entire server, app, or single file.

Summary

Data volumes are exploding, backups are targeted by ransomware, and IT infrastructures are becoming more complex. At the same time, skilled workers are rare and IT budgets can't keep up with the flood of requirements.

HPE, Commvault, and iTernity help you protect your data against ransomware and data loss. The S3-compatible solution with Object Lock makes life hard for ransomware and provides reliable and future-proof data protection. The combination of HPE, Commvault, and iTernity improves backup and storage efficiency while removing cost, risk, and complexity from data protection. Be one step ahead of ransomware and protect your data in the best possible way.

Learn more at

hpe.com/storage/iternity-via-hpe-complete

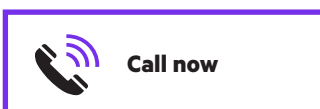
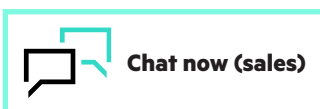
hpe.com/us/en/software/marketplace/commvault.html

hpe.com/us/en/storage/hpe-complete.html

¹ "Quantifying the Economic Benefits of the iTernity iCAS FS Archival Storage Platform," ESG 2020

² "Quantifying the Business Value of Commvault Software," IDC, 2021

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