

Protect Your Data from Ransomware with Commvault and Cloudian



Cloudian storage platform provides easy integration, and full protection from ransomware

Challenge: More Data and New Threats

With the frequency of malware attacks accelerating, it's imperative that IT managers modernize their security to protect data against ransomware, theft, and loss. Just managing data growth and meeting stringent RPO/RTO objectives is no longer enough. Your choice of data storage is critical to meeting data protection objectives. Legacy storage is expensive and lacks scalability.

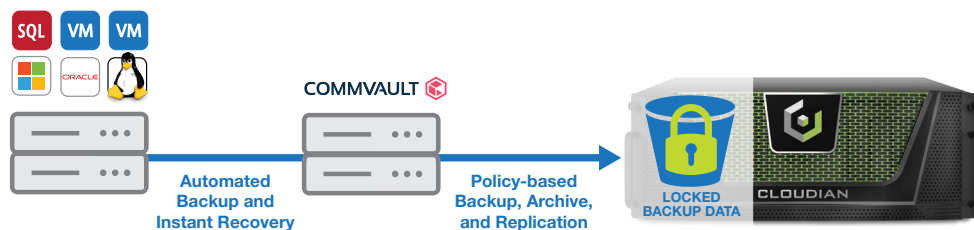
Public cloud storage is also expensive and can limit performance resulting in lengthy restore times. Wherever your backup data resides, a ransomware attack could render that data useless, potentially shutting down operations and harming your business. The need for a new approach to data protection has never been greater and more urgent.

Solution

Cloudian HyperStore enterprise storage combined with Commvault Complete™ Backup & Recovery software, each leveraging S3 Object Lock, is a seamless solution for ransomware protection. At 70% less cost than public cloud and traditional enterprise storage, Cloudian offers a cost-effective, limitlessly scalable, fully hardened storage platform for better backup security and protection.

High Speed Backup and Recovery

Cloudian provides a local, S3-compliant object storage target for Commvault backups over your local, high-speed network. The solution lets you backup and restore large data sets in a fraction of the time required for public cloud storage, leading to enhanced Recovery Point Objectives (RPO) and Recovery Time Objectives (RTO). To further ensure high performance, the solution supports recovery directly from HyperStore without the need to rehydrate an intermediate storage tier.



Cloudian provides a fast, highly-scalable backup storage target for Commvault for one or more locations, with greater backup performance than public cloud at 70% less cost. S3 Object Lock ensures data immutability, protecting backup data from ransomware.

Ransomware Protection

To protect data from ransomware attacks, Commvault backups are set up with Object Lock-enabled Cloudian storage for a seamless solution that locks out ransomware and keeps data safe. This permits data held as backup copies to be made unchangeable for the set period of time required for retention. This prevents hacker encryption and deletion while also ensuring a clean data copy for reliable recovery.

SOLUTION BENEFITS

Ransomware Protection

- Object Lock feature protects backup copies from encryption by ransomware
- Assured restore in event of an attack

Security Certifications

- SEC Rule 17a-4(f)
- CFTC Rule 1.31(c)-(d)
- FINRA Rule 4511

Superior RPO/RTO

- Fast restore from on-prem, disk-based backup target

Lowest TCO

- 1/3 the cost of public cloud or traditional enterprise storage

Trouble-Free Integration

- Seamless solution, simple to deploy
- Proven in Commvault deployments worldwide

Modular and Limitlessly Scalable

- Start small and expand

Cloud Compatible

- Compatible with AWS, Azure, GCP

DATA PROTECTION

Integrated backup and archive solution

DISASTER RECOVERY

Policy-based replication to cloud or remote site for DR

REGULATORY COMPLIANCE

HIPAA, GDPR, SEC Rule 17a-4

RANSOMWARE PROTECTION

Immutable data for protection against ransomware and other malware threats



The resulting security is comparable to keeping data in offline storage. Complete protection is provided without any changes in the regular backup workflow.

Security

Cloudian Object Lock is certified to meet the non-rewriteable, non-erasable storage requirements of SEC Rule 17a-4(f), and also meets the principles-based requirements of CFTC Rule 1.31(c)-(d) and the requirements of FINRA Rule 4511.

Cloudian has also achieved Common Criteria EAL2 certification along with FIPS 140-2 validation. In addition, Cloudian supports AES-256 server-side encryption for data at rest and SSL for data in transit (HTTPS). Fine-grained storage policies — including encryption at object and bucket-levels — permit security settings to be individually configured for different users or data types in a shared storage environment. Cloudian also offers enhanced security features such as secure shell, integrated firewall and RBAC/IAM access controls to further protect backup copies.

Hybrid Cloud-Ready

For Disaster Recovery requirements, Cloudian's data management functionality lets you create one or more remote data copies. Replicate backup data to a second Cloudian site, or to low-cost deep archive storage such as AWS Glacier. With policy-based management, your offsite copy will be automatically kept up to date.

Built-in Multi-tenancy

Cloudian HyperStore is designed with multi-tenant resource pooling and integrated management tools such as billing and quality of service controls. Whether for Cloud Service Providers or Enterprise organizations, this capability provides storage efficiency by allowing multiple users or tenants share a single, highly secure backup and storage infrastructure.

Integrated billing simplifies management, and QoS controls help you deliver consistent service levels. Multi-tenancy support lets you create multiple backup workflows within a single infrastructure without compromising security.

Lowest TCO

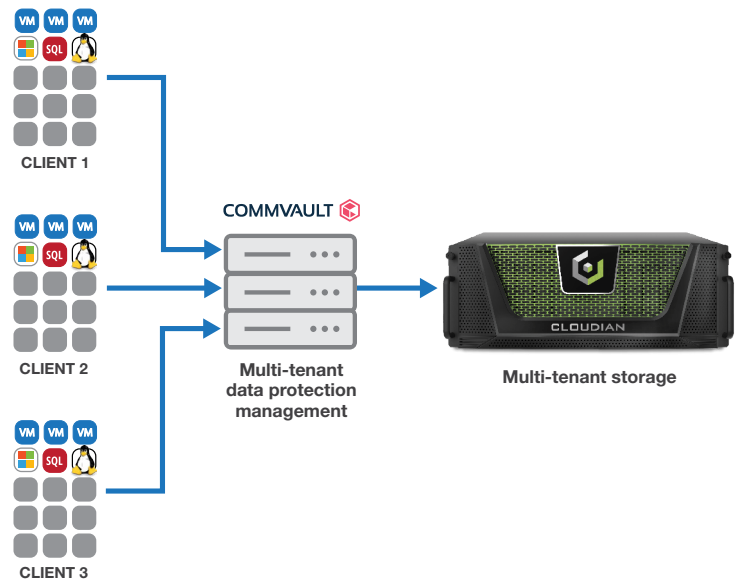
Cloudian HyperStore is a scale-out object storage platform that provides fast, cost-effective backup and archive storage at 70% less cost than public cloud storage and traditional storage options. The scale-out architecture lets you start small and grow without disruption, rather than buying capacity long in advance. A software-defined-storage model gives you the option of deploying on the hardware of your choice, or on Cloudian's pre-configured storage appliances.



Object Lock protects data from ransomware by making it unchangeable for a specified period, thus preventing encryption by malware.



Create a DR copy on low-cost public cloud deep archive storage using Cloudian's policy-based data replication.



Multi-tenancy support lets you create multiple backup workflows within a single infrastructure without compromising security.

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