

Ransomware Protection with Veeam and Lenovo Object Storage Powered by Cloudian

Immutable backups for protection against ransomware

Solution Benefits

- Provides an enterprise-grade data protection solution.
- Ransomware protection – Object Lock protects backup copies from encryption by ransomware, assured restoration in event of an attack.
- Superior RPO/RTO - Fast restore from on-premises, disk-based backup target.
- Lowest TCO – 1/3 the cost of public cloud or traditional enterprise storage. Also, 30% lower TCO than tape.
- Worry free integration – Veeam is Object Ready certified and proven in deployments worldwide.
- Modular and limitlessly scalable – Start small and scale without downtime.
- Cloud compatible – Replication to public cloud for Disaster Recovery, compatible with AWS, Azure, GCP.

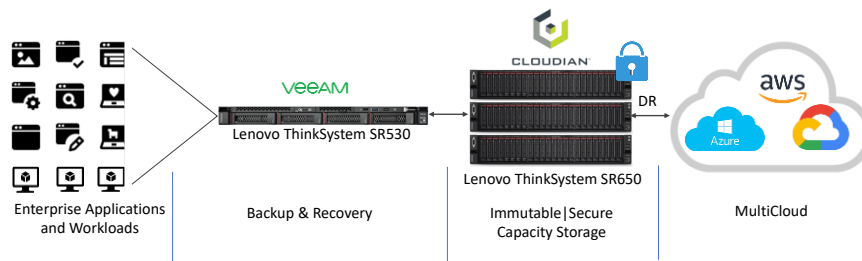
Challenge: More Data and New Threats

IT managers must manage data growth, meet stringent RPO/RTO objectives, and protect from data loss or malicious attacks. Your backup and storage targets are critical to meeting these data protection objectives. Traditional storage appliances as backup targets are expensive and lack scalability. Public cloud targets can limit bandwidth, resulting in lengthy restore times while a ransomware attack could render that data useless impacting operations. As a result, the need for a new approach to data protection has never been greater.

Solution

Lenovo Object Storage Powered by Cloudian and Veeam Backup & Replication simplifies and accelerates your data backup and recovery processes providing enterprise-grade data protection. Customers can meet their backup window and RTO/RPO objectives while enabling an offsite data recovery strategy that fit together seamlessly into their daily backup workflow.

Cloudian complements Veeam Availability Suite with fast, on-premises, disk-based storage, and built-in ransomware protection. Cloudian offers an innovative solution for better backup storage at 70% less cost than public cloud or traditional enterprise storage.



Lenovo Object Storage Powered by Cloudian provides a fast, on-prem, capacity-tier storage target for Veeam Availability Suite deployed on Lenovo ThinkSystem Servers. The Object Lock feature ensures protection from ransomware.

Use Cases

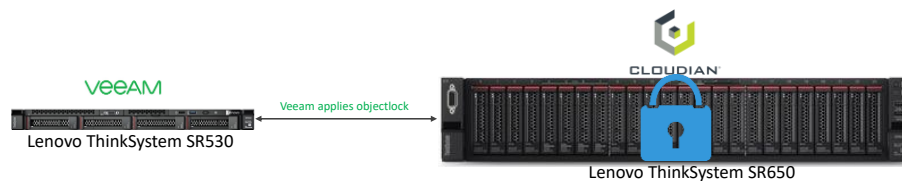
- Ransomware Protection – immutable data for compliance, governance, or legal hold.
- Data Protection – integrated backup and archive solutions.
- Disaster Recovery – policy-based replication to cloud or remote site for DR.
- Regulatory Compliance HIPPA, GDPR, SEC Rule 17a-4.

High-speed Backup and Recovery for the Largest Environments

Lenovo Object Storage Powered by Cloudian and Veeam Data Platform deployed on Lenovo servers offers enterprise customers a seamlessly integrated solution working on the industry's leading hardware infrastructure. Veeam Data Platform is deployed on Lenovo ThinkSystem servers while Cloudian is deployed on Lenovo ThinkSystem servers SR630 V2, SR650 V2 and SR655 as a scale-out storage cluster comprised of shared-nothing storage nodes. Cloudian provides a local, disk-based object storage target for Veeam backups over your local, high-speed network and scales to hundreds of petabytes. Data write bandwidth of more than 5,000MB/s (or 18TB per hour) lets you backup and restore large data sets in a fraction of the time required for public cloud storage, leading to enhanced RPO/RTO. To further ensure high performance, the solution supports recovery directly from Cloudian without the need to rehydrate an intermediate storage tier.

Ransomware Protection

To protect data from ransomware attacks, Cloudian 7.2+ and Veeam Data Platform Support Object Lock. This permits backup data copies to be made unchangeable for a set period, which prevents hacker encryption or deletion and ensures a clean data copy for reliable recovery. The resulting security is comparable to offline storage.



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

Security

To ensure data security, 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. In addition, Cloudian offers enhanced security features such as secure shell, integrated firewall, and RBAC/IAM access controls to further protect backup copies.

Hybrid Cloud-Ready

For DR purposes, Cloudian's data management functionality lets you create a remote data copy. 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.

Multi-tenancy

Increase efficiency by allowing multiple users to share a single backup and storage infrastructure, without compromising security. Both Veeam and Cloudian support multi-tenancy, ensuring that multiple clients may be supported within a single system while maintain full data security. Integrated billing simplifies management, and QoS controls help you deliver consistent service levels.

Lowest TCO

Cloudian is a scale-out object storage system that provides a fast, cost-effective backup and archive storage platform at 70% less cost than public cloud storage or traditional storage options. The scale-out architecture lets you start small and grow, rather than buying capacity long in advance.