Complete and Comprehensive Data Protection with Veeam and Cloudian

Certified immutable. No gap, end-to-end protection. Best defense against ransomware. Fastest ransom-free recovery.

Challenge: Continuing Threat to Data

Data is the most valuable asset of an enterprise. IT managers face the challenge of protecting IT from loss and malicious attacks. Legacy architectures and solutions often leave data vulnerable. Perimeter defenses are constantly challenged by increasingly sophisticated attacks. Every enterprise therefore needs a reliable data protection solution that meets stringent RPO/RTO objectives and protects data from loss or malicious ransomware attacks.

The backup target plays an integral role. Public cloud targets can limit bandwidth, resulting in lengthy restore times. A ransomware attack could render that data useless, potentially shutting down operations, whether the backup target is in the cloud or on-prem. The need for a new approach to data protection has never been greater.

Solution: Rapid, Reliable, and Resilient Recovery with Veeam and Cloudian

The new Veeam Data Platform is the simple, flexible, and reliable solution to help customers evolve the way they manage data and to ensure it is available across any application and cloud infrastructure. As part of the Veeam Data Platform, Veeam Backup and Replication v12 further advances enterprise-grade data protection with support for direct-to-object storage, allowing customers to secure their most important assets directly onto Cloudian HyperStore – a fast, on-premises disk-based storage with built-in ransomware protection.

Together, Veeam and Cloudian form a robust and highly secure data protection solution which provides end-to-end protection capabilities for greater cyber security protection and operational efficiencies to fully protect and recover faster. At 70% less cost than public cloud or traditional enterprise storage, Veeam and Cloudian together offer an innovative solution for better backup storage.
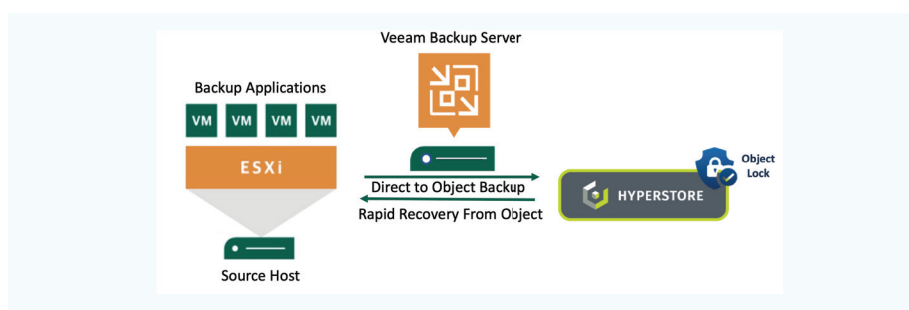
Cloudian provides greater backup performance than public cloud at 70% less cost. Object Lock feature ensures data immutability for reliable recovery.

High Speed Backup and Recovery at Reduced Cost

Veeam Data Platform provides the capability to back up data directly to Cloudian HyperStore object storage over your local high-speed network, saving significant time and money by eliminating the need for a primary backup tier. The solution lets you back up and restore large data sets in a fraction of the time required for public cloud storage, leading to enhanced Recovery Point Objectives (RPO). To enhance Recovery Time Objectives (RTO), the solution supports recovery directly from HyperStore.

Solution Benefits

Direct-To-Object for Faster, Simpler Backup and Recovery
- Eliminates primary backup tier to reduce risk, time, and cost
- Superior RPO/RTO for fast restore from on-prem backup target

Data Immutability for Ransomware Protection
- Object Lock feature protects backup copies from encryption by ransomware
- End-to-End data immutability with Direct-To-Object
- Assured restore in event of an attack
- A must-have for cyber insurance

Highly Secure
- Most security-certified on-prem object storage
- Hardened storage includes secure shell, RBAC/IAM and integrated firewall
- Root Disable for tamper resistance at the OS level

Fully Integrated Monitoring
- Integration with Smart Object Storage (SOS) API for integrated storage monitoring
- HyperIQ for access to system health and network performance cluster-wide

Cloud-Compatible
- Replication to public cloud for DR
- Compatible with AWS, Azure, GCP

Trouble-Free Integration
- Veeam Ready Object with Immutability certified
- Proven in Veeam deployments worldwide

Lowest TCO
- Cloudian is 1/3 the cost of public cloud or traditional enterprise storage
- And 30% lower TCO than tape

Use Cases

- **Data Protection:** Integrated backup and archive solution
- **Disaster Recovery:** Policy-based replication to cloud or remote site for DR
- **Ransomware Protection:** Immutable data for compliance, governance, or legal hold
- **Regulatory Compliance:** HIPAA, GDPR, SEC Rule 17a-4

End-to-End Data Immutability for Ransomware Protection

To protect data from ransomware attacks, Cloudian HyperStore and Veeam Data Platform support Object Lock for end-to-end, air-tight data immutability all the way up to the operating system root level. This permits backup data copies to be made tamperproof for a set period of time, which prevents hacker encryption or deletion and ensures a clean data copy for reliable recovery. The resulting security is comparable to offline storage.

Fully Integrated Monitoring with Smart Object Storage API

Cloudian offers comprehensive monitoring and analytics with HyperIQ observability and analytics platform for access to system health and network performance cluster wide. With the latest version, Cloudian HyperStore supports Veeam's new Smart Object Storage API (SOS API), allowing Veeam v12 and onwards users to access HyperStore usage metrics from within the Veeam console to manage and plan their capacity utilization more easily.
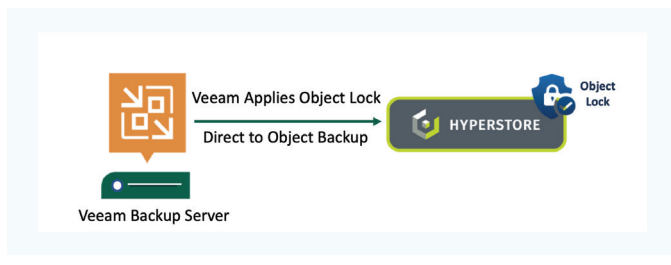
"Object Lock" protects data from ransomware by making it unchangeable for a specified period, thus preventing encryption by malware.

Industry-Leading Security

The Veeam-Cloudian solution provides extensive security features that make it possible to deploy and operate cost-effective data protection workflows while keeping customers data extremely secure. These features include data encryption and transparent key management, AES-256 server-side encryption for data stored at rest, SSL for data in transit (HTTPS), role-based access controls with specified levels of access, audit trail logging, Object Lock for data immutability, and more.

Cloud-Like Storage

Cloudian features a fully-native S3 API and a modular architecture designed to deliver a cloud-like management experience, whether deployed in your data center, at a service provider, or at the edge.

Cloudian gives you capacity on demand, making it ideal for semi-structured or unstructured data. To expand, simply add nodes, either at one site or across multiple sites. Manage it all within a single namespace, from a single management console, and search metadata across all your sites with a single query. Cloudian's hybrid cloud capabilities even let you create and manage a data copy within AWS S3, if desired.

Hybrid and Multi-Cloud Ready

Cloudian is an on-prem storage system that can also integrate directly with public cloud storage services for offsite DR, capacity expansion, or data analysis in the cloud.

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

Employ policy-based tools to replicate or tier data to AWS, GCP, Azure, or to another Cloudian HyperStore cluster. 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 maintaining full data security. Integrated billing simplifies management, and QoS controls help you deliver consistent service levels.
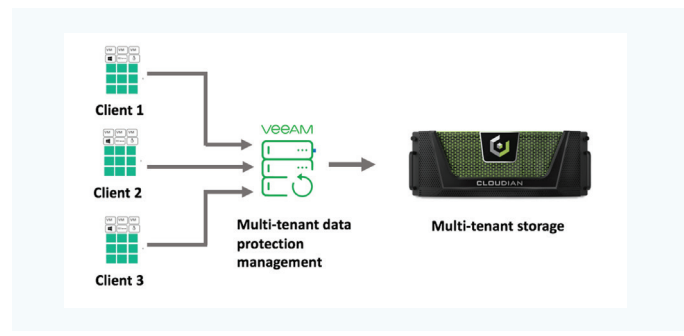
Multi-tenancy support lets you create multiple backup workflows within a single infrastructure without compromising security.

Lowest TCO

Cloudian HyperStore is a scale-out object storage 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. 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.

Veeam-Validated

Cloudian and Veeam engage through the design and engineering of new and upcoming features getting Cloudian to be fully Veeam-Validated to ensure trouble-free integration.

Learn more at Cloudian.com/Veeam.

Award-Winning

Proven at over 800 enterprise and service provider customers worldwide, with nearly two exabytes of capacity under management, Cloudian is ranked #1 overall on the Gartner Critical Capabilities 2020 report for Object Storage and is the only object storage solution to be named a Gartner Peer Insights Customers' Choice for 3 years in a row in 2020, 2021, and 2022.