

# Protect Your Data from Ransomware with VMware, Clodian and Veeam



## Ransomware Protection “As-a-Service” – VMware vCloud Director integrated solution combining Clodian backup target and Veeam Availability Suite

### Challenge: More Data and New Threats

The opportunity to provide new “As-a-Service” offerings that address the urgent challenges of protecting data from loss or malicious attacks as well as managing data growth and meeting stringent RPO/RTO objectives has never been greater.

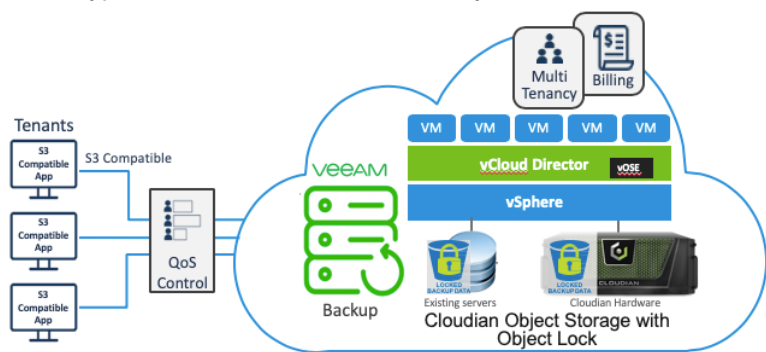
Traditional data protection infrastructure is expensive, complex, and hard to manage. Modern features, including security to ensure compliance, retention and theft protection have become critical requirements. Ransomware attacks are occurring with increasing frequency, wreaking havoc by rendering both source data and backup data useless, and potentially shutting down operations – making the need for data management services that address these risks critical.

### Solution

Clodian HyperStore enterprise storage complements Veeam Availability Suite v10 with fast, disk-based storage and built-in ransomware protection. Both seamlessly integrate with VMware vCloud Director (vCD) to enable Backup and Ransomware Protection “As-a-Service”. With compelling TCO as compared with traditional offerings, this integrated solutions gives customers an innovative new approach for data protection from ransomware.

### High Speed Backup and Recovery

Clodian provides a cost-effective, S3-compliant object storage target for Veeam backups. Offered as a service, the solution enables efficient backup and recovery of large data sets, with 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.



Clodian provides a fast, capacity-tier storage target for Veeam Availability Suite. With multi-tenancy, QoS and Billing, Clodian integrates and scales seamlessly with VMware vCD. The Object Lock feature enabled with Veeam and Clodian ensures protection from ransomware.

### Ransomware Protection

To protect data from ransomware attacks, Clodian HyperStore and Veeam Availability Suite V10 support Object Lock. This permits backup data copies to be “locked” and made unchangeable for a specified period of time and prevents hacker encryption or deletion, ensuring a clean data copy for reliable recovery. The resulting security is comparable to keeping data air gapped and offline.

### SOLUTION BENEFITS

#### Ransomware Protection

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

#### Secure

- DOD certified secure storage
- SEC Rule 17a-4 certified

#### VMware vCD integrated

- Solution is simple to deploy and manage through vCD

#### Lowest TCO

- Low TCO enabling provision of high-margin services
- 30% lower TCO than tape

#### Modular and Limitlessly Scalable

- Start small and expand without downtime

#### Cloud Compatible

- S3 compatible
- Replication to public cloud for DR
- Compatible with AWS, Azure, GCP

### NEW AS-A-SERVICE OPTIONS

<b>DATA PROTECTION</b> Integrated backup and archive solution
<b>DISASTER RECOVERY</b> Policy-based replication to cloud or remote site for DR
<b>REGULATORY COMPLIANCE</b> HIPPA, GDPR, SEC Rule 17a-4
<b>RANSOMWARE PROTECTION</b> Immutable data for compliance, governance or legal hold

## 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.

## Multi-tenancy

Cloudian's highly efficient multi-tenancy supports multiple tenants sharing 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 deliver consistent service levels.

Multi-tenancy support lets service providers create multiple backup workflows within a single infrastructure and ensure protection on an individual tenant basis.

## 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.

## Lowest TCO

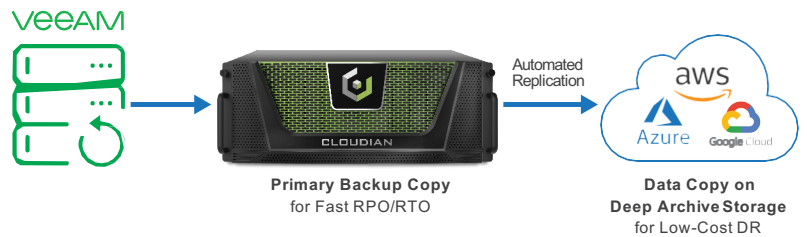
Cloudian HyperStore is a scale-out object storage system that provides a fast, cost-effective backup and archive storage platform. TCO is compelling compared with traditional storage options. The scale-out architecture lets you start small and grow, rather than buying capacity long in advance. A software-defined-storage model gives you the option of deploying on the hardware of your choice, or on Cloudian's pre-configured storage appliances.

## Veeam-Certified

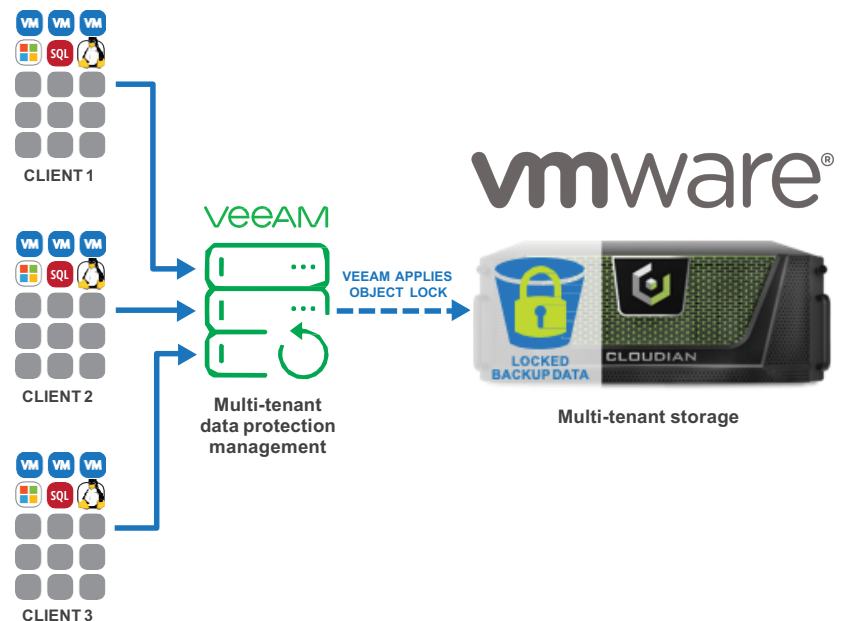
Cloudian is Veeam-certified to ensure trouble-free integration. Veeam's native support for the S3 API via the Cloud Tier, enables seamless integration with Cloudian HyperStore.



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, including optional Object Lock for ransomware protection.



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