NetApp AltaVault + Cloudian HyperStore® Private Cloud Storage

THE CHALLENGE

Traditional backup and recovery solutions fall short because they are:

- **Too slow**. Users expect instant recovery and minimal data loss, but legacy backup and recovery strategies can't keep pace. As a result, many organizations fail to meet backup and recovery windows.
- **Too expensive**. As storage grows, companies struggle with the rising cost of protecting that data. Additionally, bandwidth costs and constraints become more acute with larger data sets.
- **Too risky**. Many organizations still rely on tape, which increase companies' risk exposure due to the potential for lost media in transport, increased downtime and data loss, and limited testing ability.

SOLUTION OVERVIEW

NetApp® AltaVault™ is the only enterprise class cloud-integrated storage that cures data protection headaches by reducing time, cost, and data volumes by up to 80%. AltaVault accelerates data transfer by deduplicating, encrypting, and rapidly streaming data to Cloudian® HyperStore® on-premises cloud storage. AltaVault plus HyperStore is a proven solution that enables companies to seamlessly and securely integrate Cloudian HyperStore clouds into their backup and recovery strategy, while preserving existing investments in backup software. The combined solution of AltaVault and HyperStore allows IT to sleep peacefully knowing company data is safe and compliant in the private cloud.

Joint Solution Benefits

- Cut data volumes by 80%
- Deduplication and Encryption
- HyperStore Multi-Tenant Support
- Easy to Install and Configure

The AltaVault + Cloudian HyperStore solution is straightforward to install and configure. Just connect AltaVault to Cloudian HyperStore and point the backup software to the AltaVault appliance.

THE CLOUDIAN HYPERSTORE SOLUTION

Cloudian HyperStore is enterprise ready public, private, and hybrid cloud storage that delivers a feature rich

platform able to be deployed on commodity x86 hardware. Boasting limitless scalability, complete S3 API compatibility, multi-tenancy and auto-tiering capabilities, Cloudian HyperStore provides the enterprise with total control while ensuring data can move seamlessly between private and public clouds.

Organizations of all sizes rely on Cloudian HyperStore to deliver secure and total control over their data while dramatically reducing IT overhead and TCO. HyperStore technology uniquely balances capacity with latency, giving users the power to set multiple data protection schemes (replication and erasure coding) within the same cluster. Combined with limitless scalability, and powerful features such as QoS controls and hybrid auto-tiering, Cloudian HyperStore is the cloud storage platform of choice for the enterprise.

THE NETAPP ALTAVAULT SOLUTION

AltaVault is an enterprise class cloud-integrated storage appliance that enables customers to securely and efficiently leverage public and private cloud as part of their backup and recovery strategy. AltaVault seamlessly integrates with existing backup software, and will compress, deduplicate, encrypt, and stream data to the cloud provider of the customer's choosing. AltaVault intelligently caches recent backups locally while vaulting older versions to the cloud, allowing for rapid restores with offsite protection. This results in a backup and recovery strategy with faster recovery, reduced data loss, ironclad security, and minimal management overhead. Cloud-economics will continue to drive the total cost of the solution down year after year, enhancing user ROI.
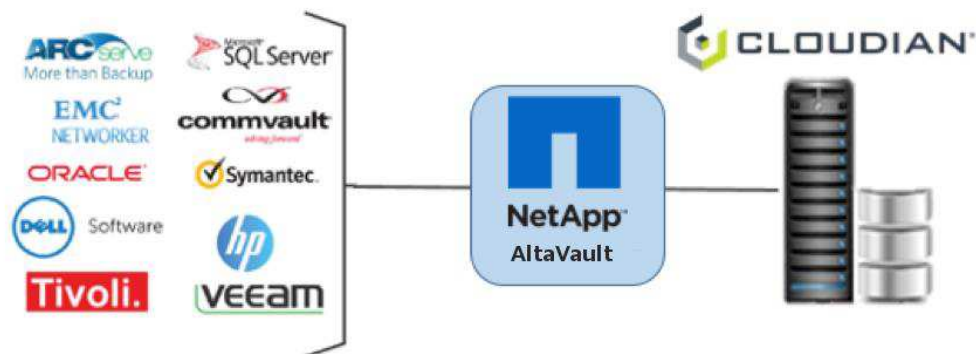
KEY BENEFITS OF THE SOLUTION

Figure 1 NetApp AltaVault deployed along with Cloudian HyperStore Cloud Storage

Unparalleled Efficiency

From the moment of installation, AltaVault is tuned and optimized to deduplicate data and get it to the Cloudian HyperStore cloud as quickly as possible. AltaVault can cut data volumes by 80% and reduce transport times by 75% leveraging the built-in data deduplication technology. Cloudian HyperStore with its limitless scalability, and powerful features such as QoS controls and data protection features like erasure coding enables deep archive efficiency and flexible redundancy, giving you robust data protection without consuming precious disk space. Key features include:
• Streamlined deployment and management
• Industry-leading data reduction
• Quality of Service

Enterprise-scale on a proven platform

AltaVault is a proven solution that enables companies to seamlessly and securely integrate Cloudian public, private, and hybrid cloud storage into their backup and recovery strategy, while preserving existing investments in backup software. Looking for choice? AltaVault can target more than 85% of backup software providers. NetApp AltaVault is available in different physical configurations to meet the needs of organizations of all sizes. Cloudian HyperStore is available as either stand-alone software, or as fully integrated appliances.

Key features include:
• Multiple deployment models
• Compatible with your existing backup software
• Limitless scalability

Ironclad security and compliance

AltaVault and HyperStore ironclad security capabilities mean that IT can sleep peacefully knowing company data is safe and compliant behind the firewall in the HyperStore private cloud. Strong encryption of data on-site, in transit, and at rest within the Cloudian HyperStore cloud means your data remains secure. Both AltaVault and HyperStore can encrypt data using 256-bit AES encryption, also known as AES-256, one of the strongest block ciphers available. Encryption keys remain safe under administrator control in your data center and can be rotated as required by security policy.
Key features include:
• Encrypted and compliant
• Shrinks recovery time and data loss
• Eliminates tape risks

About NetApp

Leading organizations worldwide count on NetApp for software, systems and services to manage and store their data. Customers value our teamwork, expertise and passion for helping them succeed now and into the future. To learn more, visit www.netapp.com.

About Cloudian

Based in the Silicon Valley, Cloudian is the leader in software-defined smart data storage. Its flagship product, Cloudian HyperStore®, is a fully S3-compatible storage platform that enables service providers and enterprises to build reliable, affordable and scalable hybrid cloud storage solutions. To learn more, visit www.cloudian.com

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