

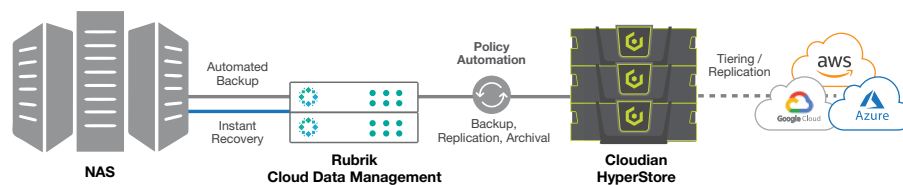
# Rubrik NAS Direct Archive Solution with Cloudian Object Storage



## Simplify, Scale, and Cost Reduce NAS Protection and Backup with Rubrik Cloud Data Management and Cloudian HyperStore

Cloudian and Rubrik are simplifying enterprise data protection with a best-in-class backup and archival solution that combines Rubrik's NAS Direct Archive and Cloudian HyperStore. This high value solution makes it easy to manage and migrate massive amounts of NAS data to Cloudian storage without impacting production environments. Cost-effective and highly scalable, this solution delivers new levels of operational efficiency and flexibility to solve challenges for large-scale NAS data management.

### Rubrik NAS Direct Archive to Cloudian



Cloudian serves as an intelligent, on-premises storage archival target for Rubrik NAS Archive backup processes. Rubrik and Cloudian seamlessly integrate to provide a single data management fabric with automated, policy-based protection. Cloudian provides on-prem backup and archival storage for Rubrik data management processes. Policy-based replication and tiering to the public cloud provides capacity expansion and offsite storage for disaster recovery.

## The Challenge

Global enterprises are facing an increasing torrent of digital-rich data including media files such as animations, videos and design files; healthcare data and medical imaging; oil and gas data, and other types unstructured and structured data. Managing this data growth and protection has become increasingly complex due to legacy architecture.

The need for an affordable, simple and effective approach to data life cycle and storage management at scale has never been greater. Enterprise organizations must be able to store massive amounts of data while also ensuring that data moving across data centers and to the cloud is simple, seamless, and secure.

## Next-Gen NAS Data Management and Archive

Rubrik eliminates the complexity of legacy enterprise backup and disaster recovery by simplifying and converging legacy architecture. It collapses backup software, catalogs, replication, and deduplicated storage into a single appliance that scales linearly. Enterprises can protect their large NAS environments using Rubrik's NAS Direct Archive capability with Cloudian's HyperStore as the designated on-prem archival storage target, with optional tiering to public cloud. This solution provides a cost-efficient, hybrid cloud approach that ensures alignment of different enterprise workloads with associated business SLAs.

With NAS Direct Archive, only file metadata is stored on Rubrik, with files sent directly to Cloudian, unlocking significant savings when managing large-scale environments.

## Cloudian as the NAS Data Archive Tier

Cloudian HyperStore is scale-out, enterprise object storage that provides cost-effective capacity expansion with integrated data protection. Cloudian HyperStore seamlessly integrates with Rubrik NAS Direct Archive as an intelligent archive storage target and provides fine-grained policy-based data protection to ensure

## CHALLENGES

- Growing NAS capacity requirements
- Need for more operational efficiencies
- Storage tiering to align workloads with targeted business SLAs
- Poor visibility of on-prem and cloud data
- Offsite backup or DR adds significant cost and/or logistical issues

## CLOUDIAN SOLUTIONS

- Hybrid cloud backup and archive
- Secondary backup target
- Seamless integration with Rubrik Cloud Data Management

## JOINT SOLUTION FEATURES & BENEFITS

- Orchestrate data across on-prem to cloud
- Balanced architecture and economics
- Unified visibility and control of data across locations
- Exabyte-scalable archival storage
- High performance at scale
- Custom metadata search and analytics
- Automated tiering to public cloud
- Storage costs under \$.01 per GB per month, including support
- Backup NAS data with your other workload data
- Target deduplication (optional)



Rubrik Cloud Data Management delivers automated backup, instant recovery, offsite replication, and data archival in a simple, scale-out appliance built for hybrid cloud.

associated service levels and RTO/RPO objectives. Multi-cloud ready, HyperStore also offers custom metadata tagging for intelligent search and analytics

Cloudian HyperStore is a fully S3 API compliant, multi-tenant, multi-data center hybrid cloud storage system. Available as an integrated rack-ready appliance or as software implemented atop existing storage infrastructure, both deployment options deliver multi-data center storage with unlimited scale, optional data tiering to any S3 cloud, and support for all S3 ecosystem applications. HyperStore is designed for simplicity and unmatched durability for easy day-to-day operations.

## Customizable Solution

Combining Rubrik NAS Direct Archive and Cloudian HyperStore allows users to store their NAS archive data in one or multiple geographically separated regions or data centers. With HyperStore as the Rubrik NAS archive tier, enterprises can extend and scale their capacity as needed, non-disruptively, keeping archive storage costs to a minimum.

With just a few clicks, enterprises can tune data protection levels to meet specific business SLAs via HyperStore and NAS Direct Archive policies. HyperStore policies allow different storage policies to be assigned on a per bucket basis, with data stored using replication and/or erasure coding.

## Solution Use Cases

### Versatile Tiering

Archive large inactive files from NAS environments to Cloudian for cost-effective long-term retention and compliance. For active production files with frequent changes, archive to Cloudian to eliminate cloud egress and other costs and deliver faster recoveries. This enables cost-effective and versatile storage tiering to align different workloads with individual business SLAs.

### Cross-Platform Migration

Enterprises with large on-prem NAS systems are limited to managing their data with vendor-native solutions. Migrate your NAS data across vendors to avoid vendor lock-in and to lower TCO. Migrate directly from your NAS backups to Cloudian for cross-platform migration without impacting production environments..

## Rubrik NAS Direct Archive – Built for Scale

NAS Direct Archive allows you to efficiently store massive datasets elsewhere on-premises in your Cloudian HyperStore cluster. Unlock policy-driven simplicity, cost savings, and high performance at scale. Drive operational efficiencies with incremental-forever backups and fast file scans.

## Rubrik NAS Direct Archive – How it Works

1. Mount NAS volumes directly onto Rubrik - no proxies required. All data is captured in its native format.
2. Automate backup and archival schedules down to the fileset level with one SLA policy engine.
3. Rubrik automatically archives data on-premises to Cloudian while retaining immediate access.
4. Restore files in-place or to an alternate NAS platform.

## Cloudian HyperStore Key Features and Benefits for NAS Archive

Cloudian offers a cost-effective, limitlessly scalable archival store for your NAS Data. HyperStore enterprise object storage provides non-disruptive capacity scaling, intuitive management tools, and scalable performance. It can also be used for your other storage use cases.

### Uncompromising Data Protection

HyperStore provides the flexibility of employing replication and/or erasure coding where appropriate across multiple sites to achieve your required level of data durability. Where archival data must be made immutable for critical compliance and retention requirements, Cloudian's WORM (Write Once, Read Many) feature allows HyperStore to protect data for the retention period you specify. During that time, the data cannot be either modified or deleted, creating an additional protection layer.

### Security

HyperStore AES-256 encryption enables enterprises to easily encrypt data stored at rest. SSL encryption ensure data confidentiality for data in transit (HTTPS). Also, with S3 compatible ACLs, bucket policies, and IAM, administrators can better manage access to data.

### Multi-Cloud Ready – Public Cloud Integration

Cloudian offers integration with all major public cloud services, including Amazon AWS, Google GCP, and Microsoft Azure. Use policy-based tiering to either migrate or replicate data from Cloudian. View both public cloud data and local data on a single screen.

### Save 70% vs. Conventional Storage

At costs down to ½ cent per GB per month, HyperStore's efficient architecture and industry-standard components save you 70% on CAPEX. Massive scalability and lights-out management result in 95% less overhead. And you'll save on rack space as well with storage density at 840TB in just 4U.

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