

Rubrik NAS Cloud Direct for NetApp: Data Protection and Archival

DATA SECURITY CHALLENGES

Ransomware attacks are one of the most widely spread cyber threats today. According to a recent global research¹, conducted by Enterprise Strategy Group (ESG), which surveyed IT and cybersecurity professionals, storage systems, such as NetApp, account for 40% of most common components of the IT environment impacted by successful ransomware attacks.

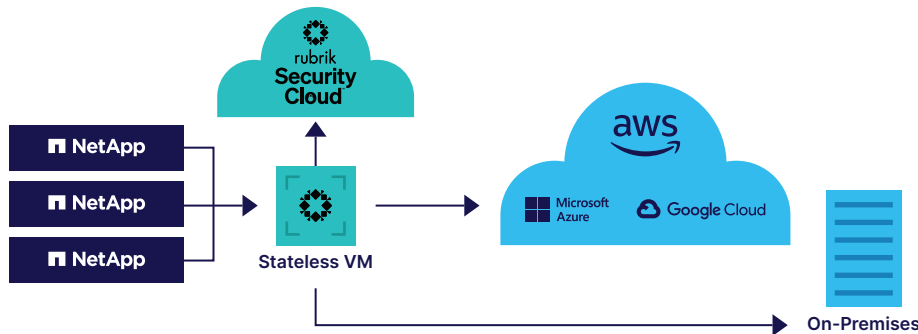
Enterprises are facing challenges when protecting the ever-growing unstructured data across their NAS environments. Teams are faced with:

- **Inability to protect petabytes of data and billions of files:** there is no efficient way to protect petabytes of data consisting of billions of files. Moving this much data strains software that was built for terabytes, not petabytes, of data. Resorting to Snap and Replicate quickly results in multiplying copies of data, stored on even more NAS devices.
- **Vulnerability to cyber-attacks and uncertain recovery:** Legacy solutions often do not provide or interoperate with immutable storage. This exposes the data to deletion, encryption, or undesirable modification, making recovery uncertain in the event of a ransomware attack. To solve for data resilience with Snap and Replicate requires additional NAS array hardware and software to contain and securely isolate the additional copy of data.
- **Continued storage spend and management inefficiency:** Because of the huge data volumes and multiple data copies, there is often limited visibility and understanding of the enterprise-wide data footprint. Without knowing data's type or usage, IT teams cannot make the best backup, archival, and retention decisions, adding to management inefficiencies and ballooning IT spend.



BUSINESS BENEFITS OF NAS CLOUD DIRECT FOR NETAPP

- Efficient data protection with up to a 10x performance boost on backup vs NDMP
- Custom policy-driven protection to meet business SLAs, governance, and compliance requirements
- Immutable snapshots, air gap and credential isolation to thwart ransomware
- Recover anywhere—on-prem or in the cloud, to original source or alternate target
- Visibility into data age attributes for best backup, archival, and retention decisions
- Write data to NFS or S3 compatible targets on-prem or in the cloud without vendor lock-ins
- Increased operational efficiency and reduced TCO



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¹ [The Long Road Ahead to Ransomware Preparedness](#), ESG Research, March 2022

RUBRIK NAS CLOUD DIRECT FOR NETAPP

Rubrik NAS Cloud Direct provides an unstructured data protection as-a-service solution, designed to seamlessly integrate with NetApp's ONTAP platform and provide efficient file data security. NAS Cloud Direct includes native integration for Data ONTAP at an API level, simplifying the tasks of system discovery, snapshot coordination, and preservation of file system permissions. Data protection is as simple as applying a policy on the share or export as required. NAS Cloud Direct's data movement engine is designed to monitor front-end latency on NetApp nodes and will throttle backup operations when latency exceeds a configurable threshold. This approach ensures continuously running backups without negatively impacting users and applications.

KEY FEATURES OF NETAPP AND RUBRIK NAS CLOUD DIRECT INTEGRATION

Rubrik NAS Cloud Direct provides API integration with NetApp's Data ONTAP file system. This integration provides organizations using NetApp for Network Attached Storage (NAS) with key functionality, including:

- **Automated permissions provisioning:** Using NetApp APIs, NAS Cloud Direct will create a backup user, and set appropriate permissions on any dataset that requires protection automatically. This eliminates the headaches of failed backups due to permissions issues and makes setup as simple as importing systems and applying policies to data.
- **Read consistency:** NAS Cloud Direct will automatically create and release snapshots on a NetApp system with each backup. This allows end-users to continue working unimpeded while maintaining read consistency of backups and avoiding accumulation of unnecessary snapshots.
- **Protection for NFS and SMB data:** NFS, SMB, and Multi-Protocol datasets on NetApp Cluster Mode systems, or NFS datasets on NetApp 7-Mode systems can be protected by Rubrik NAS Cloud Direct. The permissions for the NFS and SMB file data will be maintained through the backup and restore process.

RUBRIK NAS CLOUD DIRECT OVERVIEW

NAS Cloud Direct allows organizations to secure and manage the vast volumes of their unstructured data with immutable, instantly searchable backups at petabyte-scale. IT teams now can mitigate ransomware risk, meet business storage demands, and make smart backup and archive decisions, resulting in 30-40% TCO reduction.

NAS Cloud Direct:

- Automates data protection and simplifies archival of NAS file data at petabyte scale, allowing IT teams to balance security and performance. This is accomplished with a purpose-built NFS/SMB client that scans NAS systems using multi-threaded, parallel operations, while providing latency-aware file access and data movement. This dynamic resource throttling allows backup and recovery jobs to reach peak performance without impact on the production environment.
- Secures file data stored on file systems through NFS & SMB protocols and writes data to NFS or S3 compatible targets on-premises or in the cloud to consolidate data protection and archive operations without vendor lock-ins.
- Is protocol agnostic, centralizing backup and archive data from every NAS instance in the enterprise. Organizations that deploy a mix of NAS architectures can use NAS Cloud Direct to consolidate data from all systems, either onsite, offsite or in the public cloud.

ABOUT NETAPP

NetApp is a global, cloud-led, data-centric software company that empowers organizations to lead with data in the age of accelerated digital transformation. The company provides systems, software and cloud services that enable them to run their applications optimally from data center to cloud, whether they are developing in the cloud, moving to the cloud, or creating their own cloudlike experiences on premises. With solutions that perform across diverse environments, NetApp helps organizations build their own data fabric and securely deliver the right data, services, and applications to the right people—anytime, anywhere.



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