

NAS Data Protection Solution Brief

Simplified Converged Data Protection and Recovery for NAS

NFS, CIFS/SMB Volumes & Enhanced Primary Storage Support for NetApp, DellEMC & Pure

Modern and efficient data protection and recovery solution for primary NAS storage.

Modern enterprise data centers contain massive amounts of unstructured data in many forms including home directories, departmental shares, engineering repositories and application datasets. This critical data requires a modern data protection and recovery solution that can efficiently protect the ever-growing number of applications and information stored via NAS protocols. At the same time, the solution must support stricter business requirements thus demanding shorter recovery points and faster recovery times.

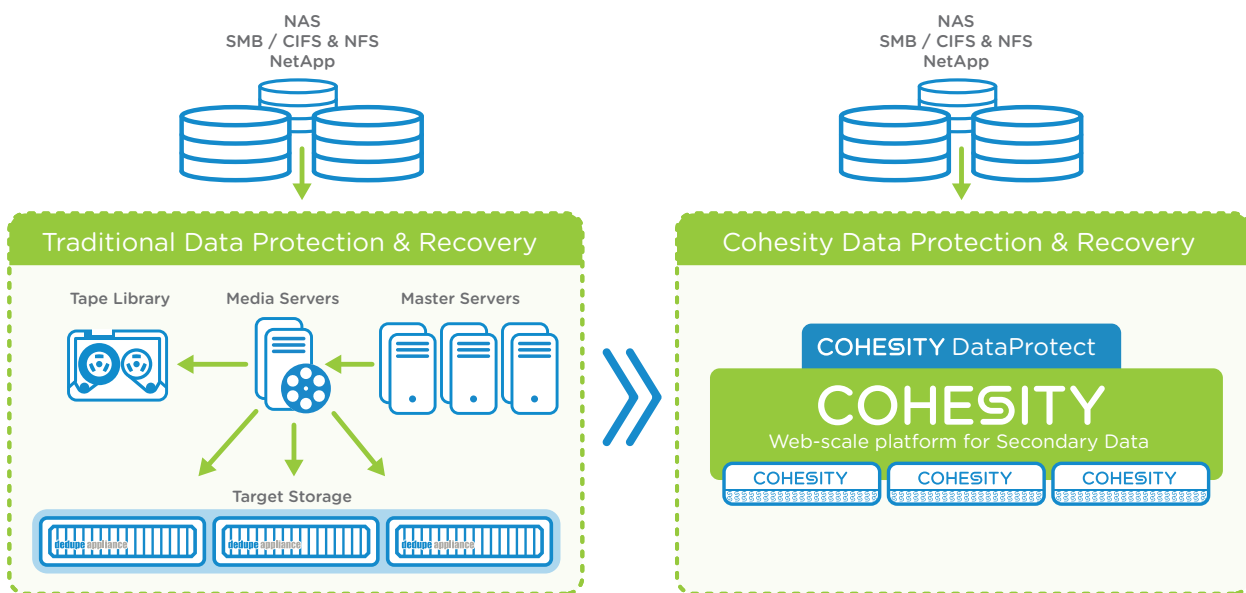
Legacy data protection and recovery solutions that were designed more than 10 years ago were engineered based on outdated technologies, and haven't been able to keep up with the demands of today's environments. Data protection and recovery typically consists of a complex mixture of expensive point products and solutions for target storage, backup software, media servers, proxies, replication, and disaster recovery.

Today's modern data centers require simpler, efficient, and cost-effective ways to keep data and information safe. Cohesity is specifically designed and engineered to solve this problem with a modern approach for data protection and recovery of primary NAS data from a variety of sources as well as advanced integration and snapshot management of NetApp, DellEMC and Pure storage.

Simplified and Efficient Data Protection and Recovery for NAS Storage

Cohesity provides the only hyperconverged platform that eliminates the complexity and operational inefficiencies of traditional data protection and recovery solutions by unifying your end-to-end data protection and recovery infrastructure - including target storage, backup, replication, disaster recovery, and cloud tiering. Eliminate data protection and recovery silos by converging all your backup infrastructure on a scale-out platform.

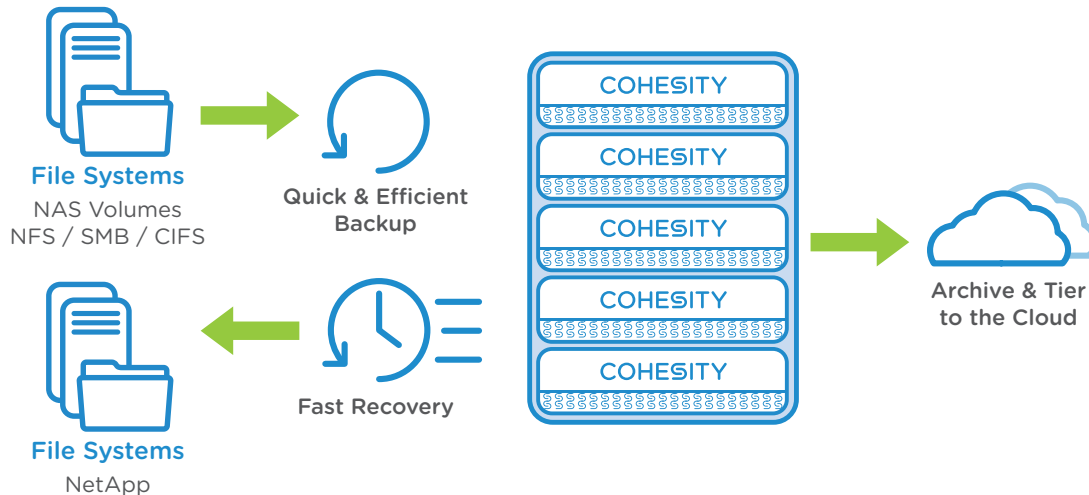
Simplify management with a single UI and policy-based automation. Accelerate your recovery points and recovery times while cutting data protection costs by 50%. Integrate with all the leading public clouds for long term archival, tiering and replication.



Cohesity Simplifies Secondary Storage and Data Protection

Cohesity's NAS Data Protection

Cohesity NAS Data Protection provides the simplest, most efficient, reliable and fastest data protection and recovery possible for SMB/CIFS and NFS data stores. Additionally, enhanced snapshot management can be used to optimize NetApp, DellEMC and Pure primary storage for continued performance and scaling.



Cohesity Supports Generic NAS & Extended Support for NetApp, DellEMC & Pure

Unlike traditional backup protocols like NDMP, Cohesity automatically discovers and creates intelligent backup plans that ensure optimal performance by streaming incremental data across all available nodes within the Cohesity cluster thereby reducing backup windows.

Additionally data is stored in an efficient but fully hydrated state ensuring that the data is instantly available and is only a mount-point away from being available to any host, server or storage system.

- Agent-less, policy-based, volume-level data protection and granular file level restore of NAS data held on SMB/CIFS and NFS primary storage allow backups on premise, replication off premise or to the cloud
- Auto-discovery and tracking of NAS volume data ensures storage-efficient, incremental backups enhancing Cohesity DataPlatform's global deduplication and compression capabilities
- Intelligent data transfer logic creates an efficient backup plan and assigns backup streams across all nodes in the cluster ensuring best backup performance
- NAS data is kept fully hydrated ensuring instant availability to clients and NAS servers for recovery or test/dev use cases
- File Metadata is indexed to allow instant search and discovery of NAS file data
- Enhanced primary storage snapshot integration enhances Cohesity's NAS data protection by triggering NetApp, DellEMC and Pure snapshots before secure data backups occur without the use of NDMP or other backup protocols

Beyond Data Protection: Making Your Data Productive

Traditional data protection solutions only provide an expensive insurance policy. The data is unproductive until disaster strikes. Cohesity takes a completely different approach. Data is valuable, and Cohesity puts backup data to productive use. Once the data is protected on Cohesity, it can be used to support multiple use cases.

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- Build a Multicloud data fabric to support disaster recovery, test/dev, and application migrations across Multicloud environments.
- Provide developers with instantaneous access to zero-cost copies of your data to accelerate test and dev processes. Perform custom analytics jobs of your protected data directly on the Cohesity cluster, without having to copy data to a separate analytics cluster.
- Easily analyze your data, whether to ensure compliance or to extract valuable insight from your backups. Cohesity exposes distributed NFS, SMB and S3 interfaces to provide file and object storage. Eliminate the need to manage multiple silos, and converge your files and object storage on the same platform used for your data protection.

Native Integration with Public Cloud Providers

Cohesity provides native integration with all the leading public cloud providers including Google Cloud Storage Nearline, Microsoft Azure, Amazon S3 and Glacier. Cohesity can leverage the cloud for the following use cases:

CloudArchive: Replace tape rotations and vaulting with long-term archival to the cloud. Enable Google-like search on your local Cohesity cluster to quickly identify data archived in the cloud. Recover to the original cluster or to a new cluster.

CloudTier: Leverage compelling cloud economics with native cloud integration for data tiering. Colder data is automatically tiered to the cloud to increase the capacity of the Cohesity cluster.

CloudReplicate: Replicate your data to a Cohesity cluster running in the cloud to create a Multicloud data fabric that supports disaster recovery, test/dev and analytics.

Cohesity provides organizations with generic, NetApp, DellEMC and Pure NAS storage the ability to bridge the traditional “islands of secondary storage” by leveraging the truly global file system and storage efficiency technologies built into the Cohesity DataPlatform. These capabilities help customers in transforming their data centers from silos of dark data to highly efficient, next-generation web-scale Enterprise IT.

Summary

Cohesity object storage provides advanced, enterprise-class data storage management that leverages Cohesity DataPlatform to provide highly available, secure and efficient hyperconverged secondary storage.