

# Cohesity NAS Protect for Pure FlashBlade: Simple, Scalable Data Protection

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## Executive overview

Pure Storage FlashBlade is the industry's first all-flash, scale-out file storage purpose-built for high-performance file and object storage. It provides unparalleled performance across a broad range of workloads, from small, metadata-heavy workloads to large streaming files. It scales out to provide petabytes of capacity and fast access to billions of objects and files.

Cohesity provides a hyperconverged platform designed to protect primary data and storage systems, including FlashBlade, and to consolidate secondary storage use cases. The Cohesity solution includes distributed scale-out storage with best-in-class space efficiency, and converged data protection.

Cohesity NAS Protect provides native integration with Pure Storage FlashBlade to deliver a simple, scalable solution to protect files and objects stored on FlashBlade. Cohesity automatically backs up files and objects using pre-defined data protection policies. The solution leverages the web-scale architecture of Cohesity to protect and manage large volumes of backup data. On Cohesity, the data is globally deduped and each incremental is kept safe in an immutable snapshot. Data can be recovered instantaneously to any point in time through direct mount of Cohesity volumes, and furthermore, users can create instant volume clones to support test/dev processes. Customers have the option of archiving or replicating data to the public cloud or any NFS / S3 compatible storage for long-term retention and off-site protection.

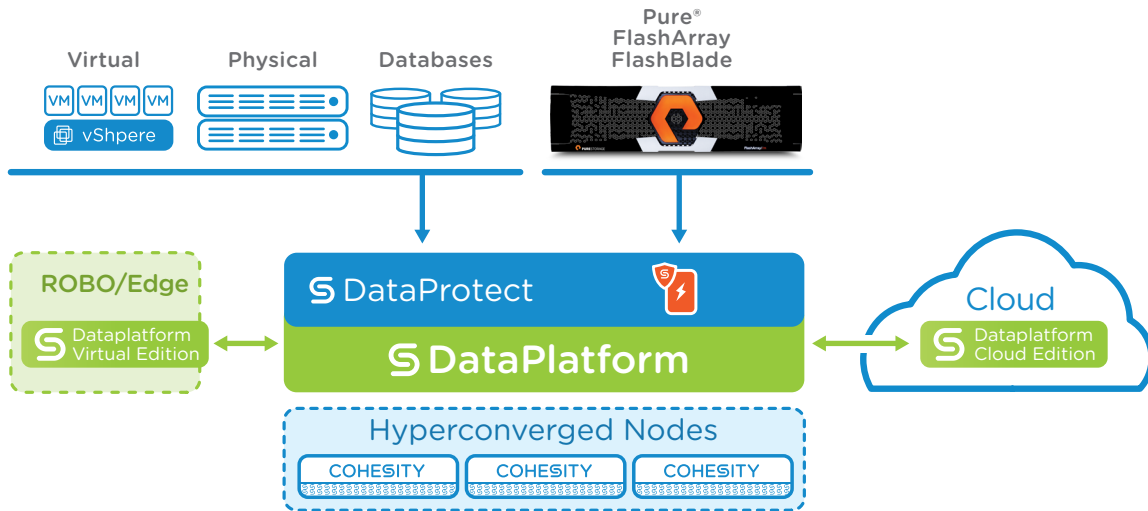
## Cohesity Overview: Simple Data Protection from Edge to Cloud

Cohesity delivers a web-scale platform that consolidates secondary storage and data services onto one unified, efficient solution. All on a software-defined platform that spans from the edge to the cloud. It includes the following components:

- **Cohesity DataPlatform** can be used as a scale-out, globally deduped backup target for your existing backup software such as Veeam or Veritas NetBackup.
- **Cohesity DataProtect** provides a backup and recovery solution that replaces traditional backup, replication, disaster recovery and cloud tiering. DataProtect runs converged on DataPlatform and is managed through the same UI and APIs. It provides very fast sub-5 minute RPOs and instantaneous RTOs.
- **Cohesity NAS Protect** for Pure Storage provides direct integration between Cohesity and Pure Storage FlashArray and FlashBlade. It enables data protection directly from Pure Storage arrays down to Cohesity DataPlatform to simplify data protection, reduce costs and improve availability.

## Solution Highlights

- Cohesity NAS Protect provides simple, scale-out data protection that can handle the large volumes of data stored on Pure Storage FlashBlade
- Automate data protection with Cohesity retention policies
- Provide high-performance backups by transferring only changed blocks with parallel, multi-stream transfers
- Reduce overall data protection costs by 50% or more with global deduplication and compression
- Keep each incremental backup safe in an immutable snapshot
- Provide instant recovery to any point in time and to any file storage
- Integrate natively with public cloud and any NFS / S3 storage for long-term archival and replication
- Accelerate test/dev processes by using Cohesity to instantly provision zero-cost clones

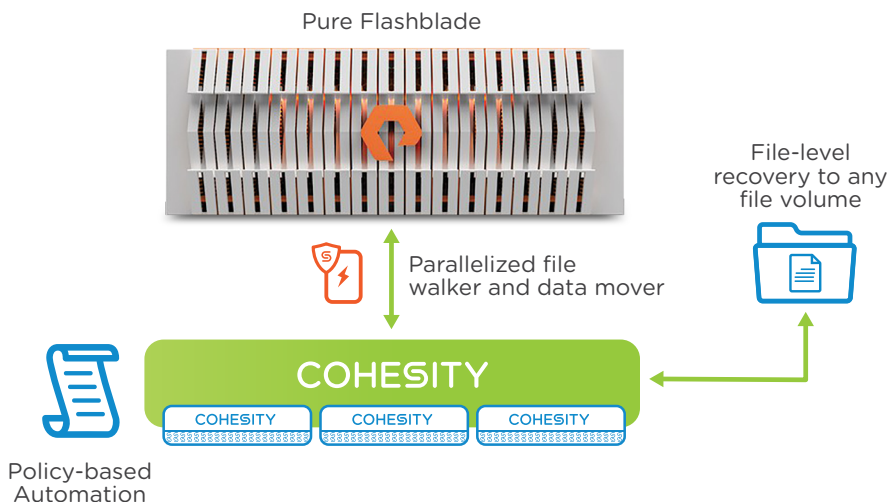


**With Cohesity, enterprises can:**

- Simplify data protection: Replace multiple data protection silos (target storage, media servers, master servers, cloud gateways) with a single converged solution
- Protect Pure Storage arrays: Integrate directly with Pure Storage arrays by using Cohesity NAS Protect for Pure Storage. Protect data from FlashArray and FlashBlade down to Cohesity
- Improve space efficiency with global dedupe and compression
- Provide sub-5 minute RPOs and instantaneous RTOs
- Simplify upgrades and expansion with a scale-out architecture
- Build a multicloud data fabric with native cloud integration for archival, tiering and replication
- Reduce secondary storage TCO by 50% or more

## NAS Protect for Pure FlashBlade

Customers need a high-performance, efficient way to protect large volumes of files on FlashBlade. Traditional NAS backup approaches were designed more than 10 years ago and either rely on a proxy to mount NAS volumes or use NDMP to eliminate the proxy. Both methods are relatively slow and rely on a single data stream to move the data. In addition, legacy target storage doesn't scale out and can't keep up with the data volumes of scale-out solutions like Pure FlashBlade.



Cohesity NAS Protect for Pure FlashBlade provides a simple, high-performance, scalable solution to protect FlashBlade files on Cohesity. Cohesity integrates natively with Pure Storage FlashBlade to automatically protect files and objects based on pre-defined policies. Customers benefit from a second tier of storage for data protection, with global dedupe and compression to maximize cost efficiency. Customers can keep their most recent files and objects on Pure Storage for speed, while storing long-term data on Cohesity secondary storage.

Cohesity NAS Protect integration with Pure FlashBlade consists of the following key capabilities:

- Automate data protection using policies defined in Cohesity
- When FlashBlade volume snapshots are available, Cohesity uses these snaps for data protection to minimize the impact on production volumes.
- When FlashBlade volume snapshots are not available, Cohesity mounts the live volumes.
- NAS Protect provides a parallel file walker to identify changed files and changed data, to only transfer incremental changes.
- Ability to perform incremental-forever backups, while rehydrating the data on the Cohesity file system.
- Parallel, multi-stream data transfers from FlashBlade to Cohesity
- Maintain each incremental backup as an immutable snapshot on Cohesity
- Enable instant restore to any previous point in time, and to the original FlashBlade array or to any other file volume

Once the data is protected on Cohesity, it can be put to productive use. Customers can create instant clones of protected files to support test/dev processes, or export the data to another file storage device. The data can also be replicated to the public cloud or to another Cohesity cluster for off-site test/dev and data protection.

## Cohesity + Pure = Better Data Protection for FlashBlade

### **Simpler, more scalable data protection**

NAS Protect eliminates the bottlenecks associated with traditional NAS backups, and provides next-generation data protection to keep up with the speed and scalability of FlashBlade. NAS Protect eliminates the need for a separate proxy and NDMP. Instead, the entire process is automated via policies set in Cohesity, and customers benefit from converged data protection + target storage in one unified solution. NAS Protect also replaces the traditional 'single data stream' approach with a much more scalable parallel file walker and data mover.

### **Independent, secure data protection**

Data residing on FlashBlade needs to be protected on a second tier of storage. When data is only residing on FlashBlade, it could be lost forever if the array becomes unavailable.

By protecting files on Cohesity, customers benefit from a second level of protection. Even if the Pure array becomes unavailable, data can still be recovered from Cohesity secondary storage. And Cohesity can protect data off-site with replication or archiving, ensuring data continues to be available even if the entire site is lost.

### **Instant recoveries to any FlashBlade array or file volume**

With traditional backup software, recovery times are typically in the 10s of minutes or hours, because full backups must be reconstructed and data has to be moved back to primary storage.

Cohesity provides instant recovery to any point in time by keeping each backup as a fully hydrated snapshot on Cohesity. Customers can directly access their files on Cohesity, or recover files to any FlashBlade array or file volume.

### **Reduce overall data protection costs**

Business imperatives and compliance / regulatory mandates require data to be retained for longer periods of time making it very expensive and thus impractical to retain them in all-flash primary environments. By tiering data to Cohesity, which provides best-in-class space efficiency, customers can reduce their overall data protection costs by 50% or more.

### **Recover to any Pure Storage FlashBlade or file volume**

Snapshots can be recovered from Cohesity to any PureStorage FlashBlade array, either in the same site or in an alternate DR site. Alternatively, data can be recovered to any other file volume.

## **Integrate natively with the public cloud for long-term archival and replication**

Cohesity provides native integration with the public cloud for long-term data retention. Customers can use Cohesity to move their longer-term data to AWS, Microsoft Azure, Or Google Cloud. These snapshots can then be recovered by Cohesity and restored to any Pure Storage FlashBlade, providing effective long-term data archival and Disaster Recovery protection.

## **Accelerate test/dev processes with Copy Data Management**

Cohesity provides the ability to instantaneously clone any snapshot at zero cost. These snapshots can then be presented to developers either directly on Cohesity, or moved to a dedicated test/dev array. This process can be done very quickly and eliminates any potential impact on production applications. Developers can have faster access to their development environments. And the test/dev copies can be provided to any point-in-time available in the backup snapshots, for more efficient debugging and problem solving.