



Simple Data Protection for the Cloud Era

Enterprise Data Protection, Simplified

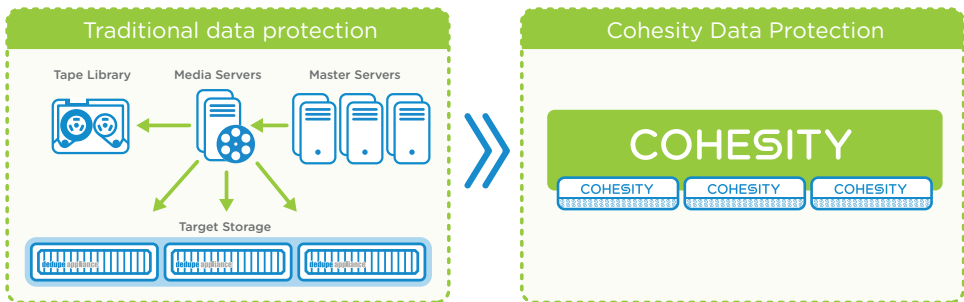
Struggling with data protection?

You're not alone. Many storage admins are faced with the challenge of protecting an increasing number of applications, while supporting tighter business requirements including shorter Recovery Points and faster Recovery Times. Legacy data protection solutions were designed more than 10 years ago, and haven't kept up with today's environments. Data protection typically consists of a complex patchwork of point products for target storage, backup software, media servers, proxies, replication, and disaster recovery.

There has to be a simpler, more cost-effective way to keep your data safe. This is the problem that Cohesity is designed to solve, with an entirely new approach to data protection.

Cohesity for simple data protection

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



Legacy Data Protection	Cohesity Data Protection
❌ Legacy Data Protection	✅ Converged, Scale-out Platform
❌ Complex Management	✅ Simple Management
❌ Fragmented Deduplication	✅ Global Deduplication
❌ Slow RPOs and RTOs	✅ <5 minute RPOs, near instant RTOs
❌ Disruptive upgrades and expansion	✅ Non-disruptive upgrades and expansion
❌ Limited cloud integration	✅ Native cloud integration

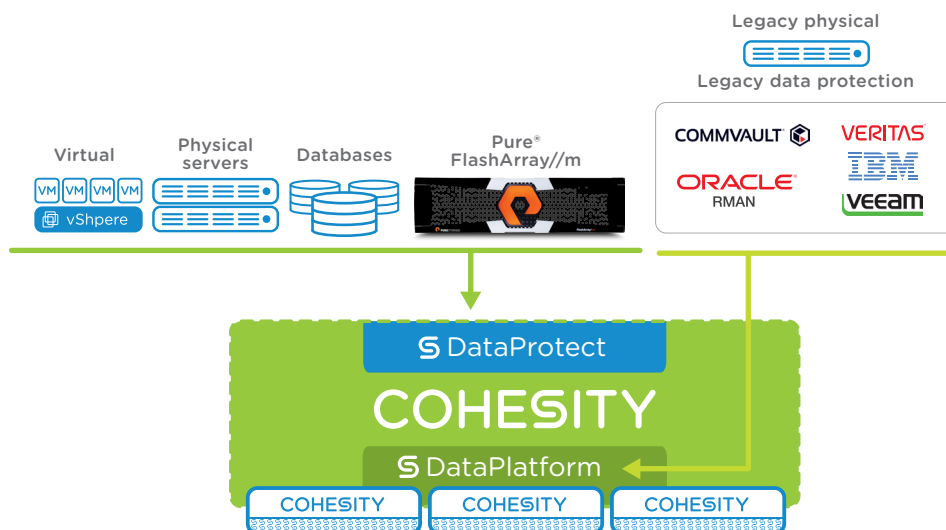
Key Benefits

- Simple, converged data protection
- Cloud archival, tiering and replication
- Single UI with policy-based automation
- Web-scale platform with global dedupe
- Non-disruptive upgrades and expansion
- Sub-5 minute RPOs and near-instant RTOs
- Make backup data productive for test/dev and analytics

Integrate Seamlessly With Existing Infrastructure

Cohesity can be used to support data protection in two different configurations: converged data protection and target storage. First, Cohesity DataProtect provides a complete, end-to-end backup solution that is fully converged on the Cohesity scale-out platform for ultimate simplicity. Second, Cohesity DataPlatform can also be used as scale-out, globally deduped target storage for traditional backup products such as Veeam or Veritas NetBackup. In the second scenario, Cohesity is used as a more efficient alternative to traditional dedupe appliances like Data domain, and integrates seamlessly with your existing backup products.

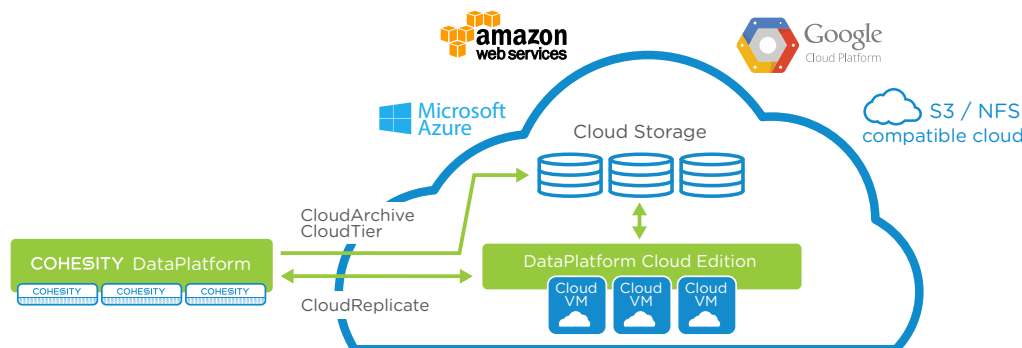
The choice is yours. A single Cohesity cluster can simultaneously support both configurations. You can start using Cohesity as target storage for your existing backup products to minimize disruption. And over time – on your own schedule – migrate all or a subset of your applications to Cohesity converged data protection for maximum simplicity.



Cloud Archival, Tiering and Replication

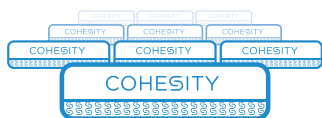
Cohesity provides native integration with all the leading public cloud providers including Google Cloud Storage Nearline, Microsoft Azure, Amazon S3 and Glacier. Traditional dedupe appliances don't provide this integration natively, and a separate storage gateway has to be bolted on to leverage the public cloud. 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 for disaster recovery, test/dev and application mobility.



Advantages of Cohesity Converged Data Protection

Best-In-Class Space Efficiency



Scale-Out With Best-In-Class Space Efficiency

Scale-out platform:

Replace individual storage appliances with a scale-out platform. Ensure always-on availability, pay-as-you-grow by scaling performance and capacity linearly, and eliminate expensive forklift upgrades.

Global deduplication, erasure coding, and compression:

Increase storage efficiency with compression and variable-length, global deduplication that spans an entire cluster. Provide data availability without sacrificing storage efficiency with erasure coding across nodes.

Simple, Automated Data Protection



Converge backup + target storage:

Simplify your data protection infrastructure with a complete backup and recovery solution that is fully converged on Cohesity DataPlatform. Eliminate the need for separate backup software, proxy servers, media servers and target storage.

End-to-end workflows through single UI:

Manage and provision your data protection services through a single pane of glass. Orchestrate data protection with a complete set of REST APIs and associated documentation. Integrate with your existing orchestration and DevOps tools.

Policy-based automation:

Create policies that specify your application requirements including RPO, retention periods, off-site replication and archival targets. Automate data protection by assigning policies to individual applications based on SLA requirements.

Broad Application and Infrastructure Support



VMware integration:

Support for vCenter Tags and Folders allows vSphere admins to manage data protection directly from vCenter. vCenter integration provides a full view of your VM objects in the Cohesity UI. vSphere APIs for Data Protection integration enables agentless, application-consistent backups with change-block tracking. And the Cohesity plugin for vRealize Automation enables self-service provisioning of data protection.



Support for databases, apps and physical servers:

Backup your physical applications with application-specific adapters. Support for Microsoft Windows Server, SQL Server, Linux, and Oracle database.



Integration with primary storage and NAS:

Integration with Pure Storage FlashArray//m to automatically tier snapshots from primary storage to Cohesity for protection and long-term retention. The Cohesity NAS adapter enables simple protection of NetApp filers on Cohesity.

Fast Recovery Points and Recovery Times



Sub-5 minute recovery points:

Reduce your Recovery Points to sub-5 minutes by taking an unlimited number of incremental backups, storing each backup as a fully hydrated snap on Cohesity DataPlatform, and leveraging parallelized data ingest.

Full catalog of always-ready snaps:

Access each backup instantaneously for cloning, application or file-level recovery, with a full catalog of always-ready snapshots.

Near-Instantaneous Recovery Times:

Recover large multi-tier applications in seconds by instantly provisioning clones from backup snapshots. Run recovered applications directly on Cohesity DataPlatform until data is copied back to primary storage.

Granular Search and Recovery



Instant Google-like search:

Instantly find your virtual machine and file data with Google-like wild-card search on Virtual Machines and individual files.

Granular VM, file and object-level recovery:

Recover individual VMs, restore files to source VMs, and recover individual application objects for Exchange, SQL, and SharePoint.

Off-Site and Long-Term Data Protection



Remote replication for disaster recovery and migrations:

Replicate between Cohesity clusters for off-site data protection, disaster recovery and application migrations. Leverage flexible topologies including one-to-many and many-to-one replication.

Cloud:

Integrate natively with all the leading public cloud providers including Google Cloud Storage, Nearline, Microsoft Azure, Amazon S3 and Glacier. Use the cloud for long-term archival, data tiering, and replication.

Tape archival:

Support external tape libraries for long-term data archival

Built-In Security



Software-based encryption of data at-rest and in-flight:

Encrypt data on Cohesity with software-based encryption using the AES-256 standard, with optional FIPS certification. Data is encrypted at-rest on the platform, and in-flight when replicated or archived to the cloud. Keys are automatically rotated and managed either by an external key management system or by the Cohesity cluster.

Ransomware protection:

Provide comprehensive protection against ransomware attacks. Take frequent backups, as often as every 5 minutes, to enable quick recovery of data on primary storage systems with minimal data loss. In addition, Cohesity backups are stored on immutable snaps to prevent malicious alterations.

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. 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.



Cohesity not only provides the enterprise scalability to back up our extensive IT systems, but also delivers instant recovery for our SQL databases, virtual machines and media content. Their integrated platform, and easy-to-implement data protection workflows, has made our data protection much simpler, more comprehensive and more reliable.”

– David Giambruno, CIO and Senior VP of IT



Cohesity DataPlatform simplifies our environment with a single solution for all our backup needs, deep integration with VMware vSphere, much faster data protection and built-in disaster recovery and replication capabilities. We’re also looking at consolidating our files on Cohesity, and migrating all our SQL database protection to Cohesity with self-service access for our DBAs.”

– James Oryszczyn, director of security and network services, Quarles & Brady LLP



With Cohesity DataPlatform, we’ve been able to dramatically simplify our data protection infrastructure, provide linear scalability for target storage, archive data to the cloud on AWS S3 storage, shrink our backup windows, and provide jet-fast recovery times. Cohesity also gives us a scale-out solution to consolidate database backups and reduce the number of data copies required to support different use cases like data protection and test/dev.”

– Fidel Torre Michieli, Systems Architect, Chewy, Inc.