

SmartFiles: Scalable and Immutable Backup Target

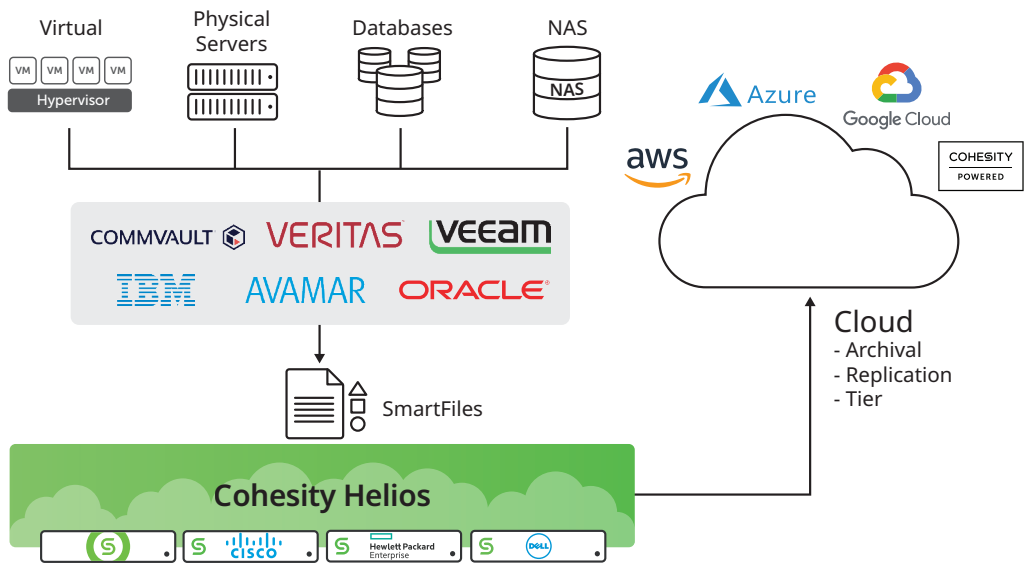
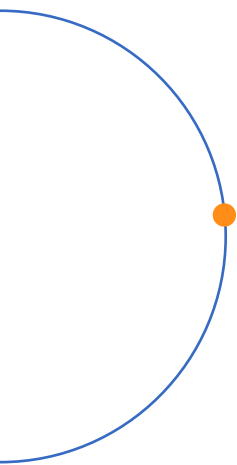


- Key Benefits**
- Unlimited scale
 - Native data immutability
 - Superior storage efficiency and data resiliency
 - Nondisruptive upgrades
 - Faster data ingest
 - Flexible hybrid cloud data mobility

Digital transformation combined with evolving regulatory and compliance demands mean that organizations are storing and backing up more data than ever. Unfortunately, scale-up target storage architectures for enterprise backups often require costly forklift upgrades and disruptive operations to keep up with growing data demands and business requirements. Organizations are left with no option but to continue to create data silos that result in mass data fragmentation.

Cohesity SmartFiles is a software-defined scale-out file and object solution that can serve as an immutable storage target for your existing enterprise backup software. As it is specifically architected with industry-standard NFS, SMB, and S3 interfaces, it can be used without disruption in your current environment. And because it is designed for cloud scale, Cohesity SmartFiles is built for resiliency and scales with no limits to keep up with the demands of growing data. Designed to optimize your unstructured data, SmartFiles delivers superior space efficiency with variable-length sliding window deduplication and compression.

Cohesity SmartFiles uniquely provides freedom of choice, broad compatibility, stress-free management, integrated security, the ability to search an entire geographic enterprise, and optimized TCO.



Key Features

- Data immutability with DataLock and ML-based anomaly detection
- Cloud-native scalability (archiving, replication, and tiering support)
- Software-defined flexibility
- Superior dedupe and compression
- NFS, SMB, and S3 support
- Fault tolerance and protection against disk/node failures

Native Data Immutability

Defend your data against ransomware and malicious attacks with DataLock, a WORM feature that prevents your backup data from being encrypted, modified, or deleted.

Non Disruptive Upgrades

A software-defined scale-out architecture gives you the freedom to run on your choice of qualified hardware, with the flexibility to expand on-demand. SmartFiles eliminates disruptive forklift upgrades and integrates seamlessly with your current backup environment.

Higher Resilience

Built with web-scale principles, Cohesity SmartFiles is powered by Cohesity's SpanFS, a distributed file system that has no single point of failure. It offers additional resilience with fault tolerance to withstand multiple node, disk, and even entire rack failures.

Superior Space Efficiency

Global variable-length sliding window deduplication and compression offer outstanding space efficiency and data reduction. Cohesity SmartFiles significantly reduces your data footprint, lowers operational costs, and minimizes the attack surface to protect you and minimize the risk from cyber threats.

Hybrid Cloud Data Mobility

A cloud-native solution that dramatically simplifies how data is stored, managed, and accessed in the cloud, including AWS, Microsoft Azure, and Google Cloud for replication, long-term archival, and tiering.

Reduce TCO

Eliminate data silos with a singular platform for backup, archival and retention, disaster recovery, cloud integration, and data management across multiple sites and clouds.

One Management Interface

One user interface is all you need to manage your on-premises Cohesity clusters as well as Cohesity-managed or partner-managed clusters. Use the mobile app version of the user interface to drill down into specific services or clusters when you're on the go or in remote locations. The Helios interface also takes advantage of machine learning for predictive planning and capacity management.

Massive Scale

SmartFiles delivers the capacity, performance, and scale to support consolidation of multiple workloads including backup and application data, digital libraries, archives, rich media, video surveillance, big data, and more.

Unified File & Object

With native multiprotocol support for NFS, SMB, and S3, files and objects can be accessed simultaneously. File permissions across NFS and SMB environments are mapped for transparent file access from either protocol.

Security and Compliance

Exceptional security and privacy for secure long-term retention and compliance with SEC17a-4, PCI-DSS, Common Criteria, FIPS-compliant software encryption, SMB encryption, auditing, multi-factor authentication (MFA), RBAC, and integrated anti-virus and ransomware protection. Quorum authentication adds an extra layer of protection by requiring approval by a group of administrators for sensitive and privileged operations. Together, these robust security features can satisfy the most highly-regulated industries, to power a myriad of enterprise use cases.

Do More with Data

Expand the value of your unstructured data with a comprehensive Marketplace app ecosystem of integrated third-party applications. These powerful apps run directly on data in-place to: mitigate risk from cyber threats and ransomware, accelerate content and metadata search, streamline compliance and eDiscovery, detect anomalies, develop actionable insights with powerful analytics, and more.

To learn how you can lower the total cost of storage ownership by up to 51% by consolidating your data onto a more cost-effective and simpler to manage solution, check out this [report from ESG](#)

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