COHESITY | *SPECTRA*

Data protection and retention at scale with object-based tape

Key Benefits

- Automatic air-gapped copies for superior cyber resilience

- Seamlessly scales from terabytes to exabytes

- Data retention from days to decades

- More cost-effective than cloud or disk solutions

- Highest-performance tape solution available

Having an effective data retention policy is essential when navigating the complex landscape of data protection, compliance, and resilience. A well-defined retention policy outlines what data should be preserved, for how long, and where it should be stored. While business continuity restores are typically facilitated by an online disk solution, long-term backup retention, which is a foundational element in an efficient backup strategy, enables organizations to uphold data protection standards and fulfill compliance requirements by ensuring the security and accessibility of data over extended periods. Long-term backup retention is best served by lower cost object-based tape storage. Additionally, relocating long-term backup data from primary storage to a object-based tape tier frees up space, enhances access to critical data, and streamlines data retrieval processes by decluttering primary storage.

With the advent of public and private clouds, archiving data for long-term retention, compliance, and auditing purposes has become much easier and more cost-effective. The Cohesity data security and management platform is tightly integrated with all major public and private clouds. While other solutions offer faster access, tape remains a popular choice for long-term archiving due to its inherently lower costs and ease of regulatory compliance. Through Cohesity's integration with the Spectra Logic object-based tape solution, enterprises now have the option to archive data to public clouds, private clouds, or tape, creating greater flexibility and choice in preserving their data.

Cohesity and Spectra Logic have integrated a powerful suite of innovative technologies to address the evolving needs of data management. By leveraging Spectra Logic's industry-leading object-based disk and tape storage solutions and Cohesity's comprehensive data management platform, organizations can achieve unparalleled efficiency, reliability, and cost-effectiveness in their data archiving strategies. Cohesity's integration with Spectra Logic enables seamless interoperability between Cohesity Data Cloud and Spectra Logic object-based disk or object-based tape solutions. This integration ensures smooth data movement and management across the entire storage infrastructure.
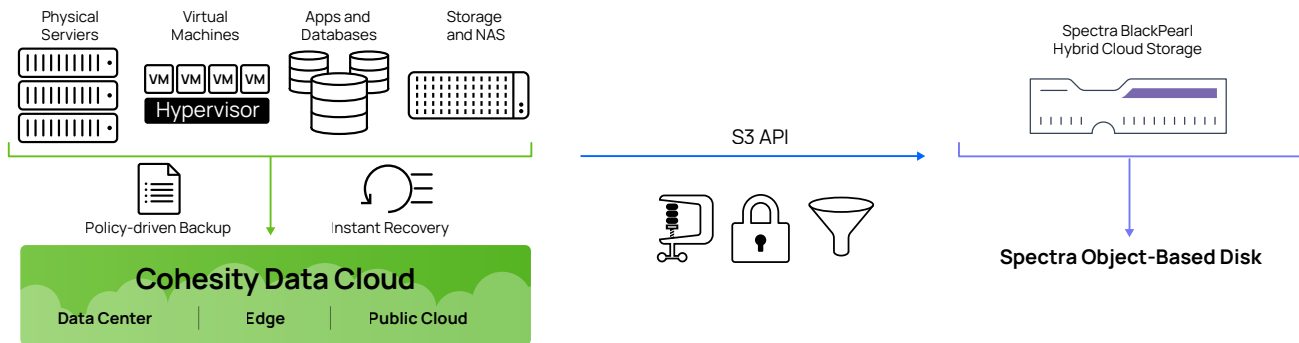
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Figure 1: Archiving to Spectra Logic BlackPearl hybrid cloud storage via S3

A complete solution implementation typically includes an incremental with periodic full and incremental forever workflow to Spectra Logic object-based disk, and a periodic cycle of full Grandfather-Father-Son (GFS) backups with compression sent to Spectra Logic object-based tape using Cloud Archive. This combination offers business continuity restores with minimal storage space requirements while ensuring long-term data protection through an object-based tape copy, all within a single system. Backup sets can be saved indefinitely with minimal power consumption and cost.

Spectra Logic as S3 Disk only target for incremental with periodic full and incremental forever backups:

Utilize Spectra Logic as an S3-compatible disk target, empowering organizations to archive data directly to Spectra Logic disk storage with the flexibility and scalability of cloud archiving. All data sent by Cohesity to Spectra Logic is source-side encrypted, ensuring robust security and protection against unauthorized access in transit and at rest. The Spectra Logic object-based disk solution can be expanded to include a tape library for long-term data retention.

- **S3 Compatibility:** Spectra Logic provides an S3-compatible interface, allowing seamless integration with Cohesity's Cloud Archive feature. This compatibility ensures that data can be archived directly to Spectra Logic's disk storage using standard S3 protocols instead of through a file interface, simplifying the archival process and facilitating interoperability with Cohesity's data management platform.

- **Disk and Tape Storage Flexibility**: By leveraging Spectra Logic as an S3 target, organizations gain flexibility in their storage infrastructure. Spectra Logic's disk storage offers high-performance, scalable, and easily accessible storage capacity, enabling organizations to efficiently manage and access archived data as needed.

- **Scalability and Cloud Archiving**: Spectra Logic disk storage solutions provide scalability to accommodate growing data volumes, making them ideal for cloud archiving. Organizations can seamlessly scale their archival storage capacity as data requirements evolve, ensuring cost-effective and efficient long-term data retention.

- **Data Management Integration**: Cohesity's integration with Spectra Logic enables centralized management of data archiving workflows. Administrators can easily configure Cohesity's Cloud Archive feature to tier data to Spectra Logic's disk storage, streamlining data lifecycle management and optimizing storage resources.

Spectra Logic as S3 object-based tape target for full backup with compression and encryption backups to tape

Leverage Spectra Logic object-based tape storage via the S3-Glacier API from Cohesity for direct writing and restoration of data to and from tape. With compression support, organizations can optimize storage utilization and reduce costs without compromising data integrity. The S3-Glacier interface simplifies integration, provides fast speed, and extends immutability to a new level with a true physical air gap to thwart ransomware attacks.

- **Tape Storage for Long-Term Archiving:** Spectra Logic tape storage solutions offer a cost-effective and reliable option for long-term data retention. Organizations can store large volumes of data offline using tape media, ensuring data durability and protection against hardware failures, cyber threats, and other risks.
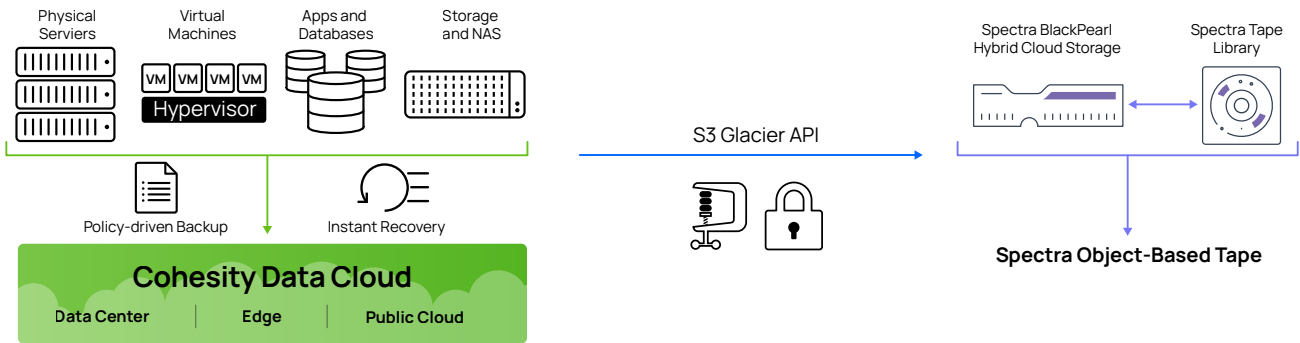
Figure 2: Storing full archives with compression via Amazon S3 Glacier interface on Spectra object-based tape

- **Integration with S3 Glacier APIs**: Spectra Logic tape libraries seamlessly integrate with S3 Glacier APIs, enabling organizations to archive data to tape storage using standard S3 Glacier commands. This integration simplifies the archival process and allows organizations to leverage their existing S3-compatible applications and workflows at speeds up to 20X that of other tape solutions.

- **Compression for Storage Optimization:** Spectra Logic tape storage solutions support data compression, allowing organizations to optimize storage utilization and reduce costs. Organizations can store more data within the same physical storage footprint by compressing data before writing it to tape, maximizing efficiency and reducing storage expenses.

- **Efficient Data Restoration:** Spectra Logic tape libraries facilitate efficient data restoration from tape storage using S3 Glacier APIs. Organizations can retrieve archived data quickly and seamlessly, ensuring timely access to critical information when needed.

- **Data Integrity and Security**: Spectra Logic tape storage solutions offer robust data integrity and security features, including built-in encryption and WORM (Write Once, Read Many) capabilities. These features help organizations protect archived data against unauthorized access, tampering, and data corruption, ensuring compliance with regulatory requirements and data governance policies.

Why Spectra Object-based Tape?

- Backup/Archive and retain data for 20+ years with:
  - Eco-friendly – little to no power consumption
  - No egress fees or hidden cloud costs
  - High performance access and data transfer
  - Full governance/control of data for legal holds

- Unlike disk storage, no need for a 5-year equipment refresh cycle

- Complete physical air gap – impenetrable for ransomware protection

- Multi-site, multi-copy setup without the need for physical intervention

- Integrate your existing tape library into a hybrid cloud data protection solution

The partnership between Cohesity and Spectra Logic offers organizations a powerful and comprehensive solution for tape storage and archival. By combining Cohesity's advanced data management platform with Spectra Logic's industry-leading object-based disk and tape storage technology, organizations can achieve unparalleled efficiency, reliability, and cost-effectiveness in their data archiving strategies, ensuring long-term data preservation and compliance.

Simplify and modernize your data archival. Learn more at Cohesity.

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