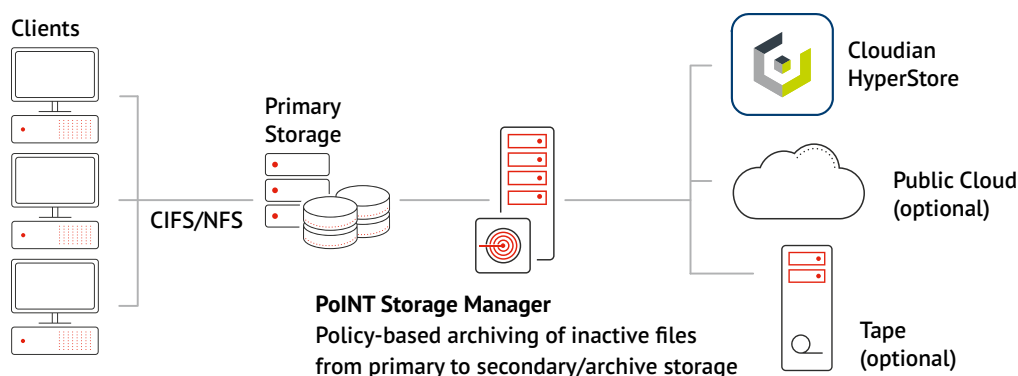Data volumes are rising, and most primary storage systems are overloaded with unstructured data that is inactive or needs to be archived. Very often this data has not been accessed for several months. Inactive data can lead to a situation where backup windows cannot be met. Additionally, primary storage does not provide mechanisms to protect data against modifications and deletion. Therefore, expensive primary storage systems, like file servers and NAS, are not the appropriate system for storing data that is inactive or needs to be archived. On the other hand, users and applications expect seamless access to all data.

POINT STORAGE MANAGER AND CLOUDIAN HYPERSTORE SOLVE THE PROBLEM

PoINT Storage Manager and Cloudian HyperStore help solving this problem by performing policy-based file archiving from primary storage and NAS systems to Cloudian HyperStore, with transparent access to all data.

PoINT Software & Systems and Cloudian provide a comprehensive approach to unstructured data migration and archiving. PoINT Storage Manager provides automatic and user-defined tiering from primary storage to Cloudian HyperStore for archiving purposes within an existing infrastructure, without the need for costly changes and adaptations.

HSM AND ILM
The combined PoINT/Cloudian solution offers hierarchical storage management (HSM) and information lifecycle management (ILM) for unstructured data. Thanks to the extensive ruleset of PoINT Storage Manager customers can realize automated file tiering and archiving.

UNINTERRUPTED OPERATION OF APPLICATIONS
PoINT Storage Manager integrates Cloudian HyperStore into a tiered storage architecture and provides the basis for seamless migration. This scenario allows uninterrupted operation of applications and users during the migration. No reconfiguration is necessary.

USER-CONTROLLED ARCHIVING
In addition to the automatic archiving functions PoINT Storage Manager supports user-controlled archiving and uses Cloudian HyperStore as archiving device.
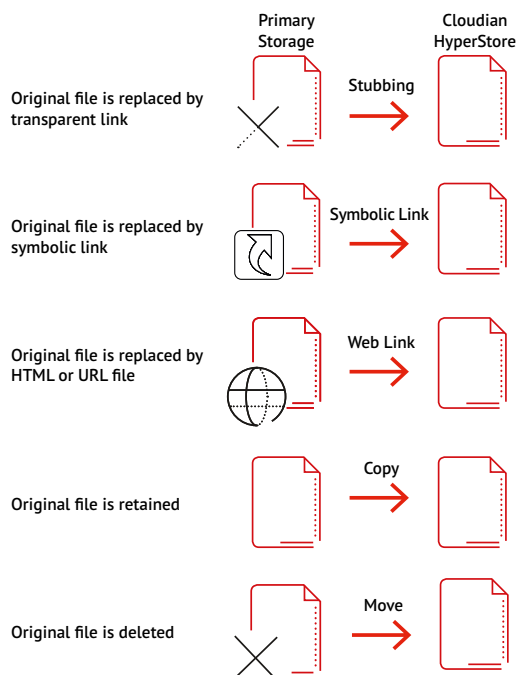
ARCHIVE FILE SYSTEM
PoINT Storage Manager can also function as a gateway, supplying file system-based access to Cloudian HyperStore. As with the HSM/ILM approach, customers also benefit from the WORM functionality and retention management.

Benefits

- Efficient use of primary storage and NAS
- Reduced risk of litigation by archiving
- Reduced capital expenses
- Ease of use and administration
- Cost and time savings from reduced backup volume

Tiering and Archiving Methods

PoINT Storage Manager, in combination with Cloudian HyperStore, supports multiple tiering and archiving methods. This includes copying files (Copy Mode), moving files (Data Mover Mode), as well as stubbing and linking files (HSM Mode). Additionally PoINT Storage Manager supports Web Links (URL or HTML files) which are independent from the source system and the operating system.

	Primary Storage		Cloudian HyperStore
Original file is replaced by transparent link		Stubbing →	
Original file is replaced by symbolic link		Symbolic Link →	
Original file is replaced by HTML or URL file		Web Link →	
Original file is retained		Copy →	
Original file is deleted		Move →	

Web Client

The Web Client of PoINT Storage Manager is a platform-independent web portal which allows authorized users to download given versions of a file archived on Cloudian HyperStore. With the PoINT Web Client there is no need to directly connect to the primary storage file system.

Versioning and Retention Management

Once archived, files can be read, but they cannot be edited any more. If they are changed, a new version is created, and the original file is kept in its original condition on Cloudian HyperStore. The integrated retention management allows customers to specify a retention period for archived files stored on Cloudian HyperStore. During this period, files cannot be deleted from the archive. If a file needs to be deleted before the retention period expires, e.g. in order to meet legal requirements, a so-called privileged deletion option is available, whose execution is logged.

Archive Volumes

While archiving files, PoINT Storage Manager collects files that meet the defined ruleset and generates so-called Archive Volumes, which are based on a standardized, platform-independent format (Universal Disc Format). Working with Archive Volumes improves performance and accelerate later future migrations. Reading files from Archive Volumes occurs transparently on byte-range level without requesting entire volume. Optionally Archive Volumes can be encrypted.

About Cloudian

Cloudian is the most widely deployed independent provider of object storage systems, with the industry's most advanced S3 compatibility and an extensive partnership ecosystem. Its award-winning flagship solution, HyperStore, provides limitless scalability and cloud-like technology, flexibility and economics in the data center. Cloudian's global data fabric architecture enables enterprises to store, find and protect object and file data seamlessly across sites, both on-premises and in public clouds, within a single, unified platform. Learn more at cloudian.com.

About PoINT

PoINT Software & Systems GmbH is specialized in the development and distribution of software products for storage, management and archiving of data. Our data & storage management solutions offer an easy and efficient integration of different storage technologies and systems in consideration of enterprise requirements. PoINT products allow optimized usage of storage systems and help to reduce costs and issues caused by data growth. The software solutions fulfil compliance and archiving requirements and provide independence from storage technologies and vendors.

Technical Information for PoINT Storage Manager

Source Systems

- NAS (CIFS / NFS)
- Dell EMC (VNX / Unity / Isilon)
- NetApp (FAS Series)
- Windows Server
- UNIX / Linux Server (NFS)

System Requirements

Windows Server 2019, 2022 (VMware supported)