

Businesses are increasingly using object storage technology for many workloads. Aside from its high scalability and availability, the technology's S3 interfacing capability lends it a significant advantage in comparison to traditional NAS or SAN systems. This simple storage interface massively streamlines the development of new applications

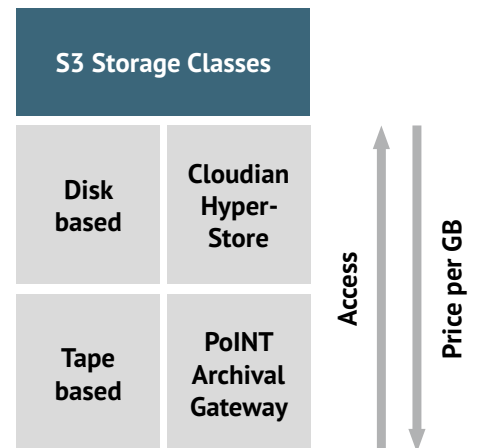
for fields such as IoT and analytics. However, object storage systems face the challenge of rapidly rising data volumes just like any other technology. As a result, businesses are seeking solutions that will reduce their storage costs. They also need to store an additional copy of each saved object on an independent, external system.

S3 STORAGE CLASSES

Hyperscalers like AWS and Microsoft Azure offer their customers a range of cloud storage categories. Beyond the standard tier, these providers offer additional storage classes which generally take much longer to access objects but offer a lower price per GB.

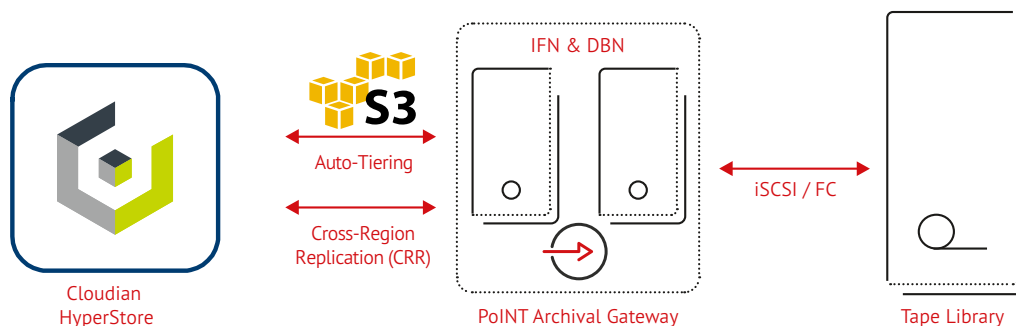
By comparison, object storage systems running on-premises only have one hard disk-based storage class, with active and inactive data all stored in the same location.

By combining Cloudian HyperStore with PoINT Archival Gateway, multiple storage classes (disk/flash and tape) can be used in a unified solution. Inactive objects can be automatically tiered from disk/flash storage class (HyperStore) to tape (PoINT Archival Gateway). In this way, the advantages of different storage media can be efficiently combined.



TAPE-BASED S3 OBJECT STORAGE

PoINT Archival Gateway is a software-based high-performance object storage solution which uses tapes as storage medium. PoINT Archival Gateway offers an S3 REST API as an interface for applications needing to archive data. Data protection is ensured thanks to object locking and a modern "erasure coding" process. This method saves data blocks redundantly on multiple tape-based media formats, meaning that data is not lost even if one volume fails. With tape storage the price per terabyte and the costs of operation in terms of energy requirements are very low.



Benefits

- S3 storage class with tape for inactive data
- Low price per terabyte
- Low energy costs
- Independence from library provider
- Maximum parallelisation and transfer rates

Functionality

- Native S3 REST API
- Erasure Coding
- Native tape support (LTO and IBM 3592)
- Node-based scaling
- Retention Management
- High availability

Cloudian HyperStore CRR

With the help of Cross Region Replication (CRR), customers can automatically store objects in an external bucket as well as in the internal one. This makes it possible to store a copy of the data on an independent system. With PoINT Archival Gateway, this backup copy is stored on cost-effective tape media.

Object locking, versioning and integrated retention management protect objects against changes or deletion. As PoINT Archival Gateway offers a standardized S3 API just like Cloudian HyperStore, objects can be read directly without having to start up a long-winded restoration process.

Cloudian auto-tiering integration

With Cloudian's auto-tiering functionality, customers can automatically move objects from HyperStore systems to external object storage. Auto-tiering is configured at the bucket level and offers filtering options based on object prefixes, time stamps and more. By combining Cloudian HyperStore with PoINT Archival Gateway, businesses can set up a two-tier object storage infrastructure. While active data remains on the hard disc-based HyperStore system, PoINT Archival Gateway stores inactive data on tape.

About Cloudian

Cloudian® is a file and object storage system provider based in Silicon Valley which specializes in S3 API storage systems. Cloudian, which has its roots in developing messaging systems for large enterprises, released its object- based platform HyperStore® in 2011.

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

Supported Target Systems (Tape Libraries)

- actidata
- BDT
- Cristie
- Fujitsu
- HPE
- IBM
- Qualstar
- Quantum
- Spectra

System Requirements

At www.point.de you can download the system requirements and find a list of all compatible storage systems.