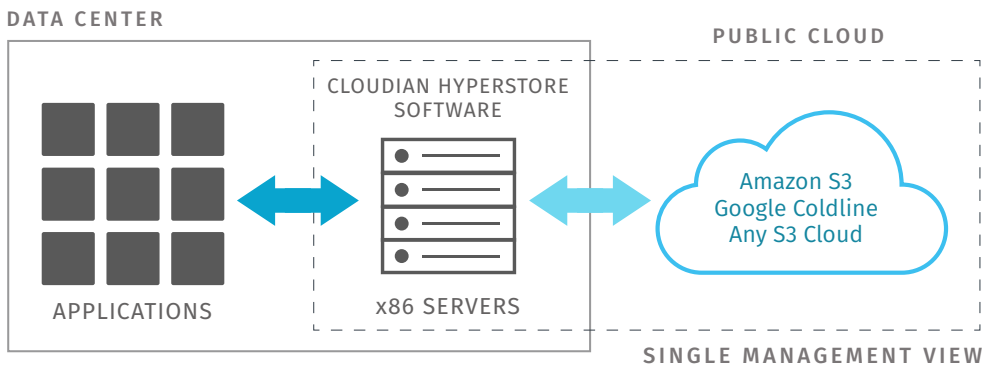**CLOUDIAN**®

Cloudian HyperStore Software

Cloudian HyperStore® software makes it easy to build full-featured, Amazon S3-compliant cloud storage, on-premises. It is available as either stand-alone software, or fully integrated with Cloudian HyperStore appliances. Either way, HyperStore software ensures unlimited scale, multi-data center storage, fully automated data tiering, and support for all S3 applications—all behind your firewall.

DATA CENTER   PUBLIC CLOUD

CLOUDIAN HYPERSTORE SOFTWARE

APPLICATIONS   x86 SERVERS

Amazon S3
Google Coldline
Any S3 Cloud

SINGLE MANAGEMENT VIEW

Software or Appliance— Your Choice

Cloudian HyperStore software, whether deployed on a user's existing hardware or pre-installed on a Cloudian HyperStore appliance, combines robust availability with system management control, monitoring capabilities and reporting. A host of features, including hybrid cloud streaming, virtual nodes, configurable erasure coding, and data compression and encryption help HyperStore set Cloudian apart with highly efficient storage and seamless data management that lets users store and access their data where they want it, when they want it.

Built on a robust object storage platform for effortless data sharing, cloud service providers around the world use HyperStore to deploy and manage both public and private clouds, while enterprises rely on it to maintain their private and hybrid clouds.

Analytics for Big Data

HyperStore is at the forefront of smart data with efficient, scalable storage for the Internet of Things. Enterprises can now run Hadoop analytics directly on HyperStore

software and appliances. This in-place analytics capability enables customers to derive meaningful business intelligence from their data quickly, efficiently and economically as they realize market- and revenue-shifting insights.

Scale as You Grow

HyperStore cost-effectively scales via commodity hardware so initial deployments can be comprised of only a few servers in a single data center. As demand grows, these installations can easily expand to thousands of servers that process hundreds of petabytes of data, distributed across multiple data centers.

Protects all Data

HyperStore software optimizes storage for all data objects, both large and small. Erasure coding enables deep archive efficiency and flexible redundancy, giving you robust data protection without consuming precious disk space. Object replicas are employed for frequently used data.

HIGHLIGHTS

- Easy out-of-the-box deployment as stand-alone software or pre-installed on Cloudian HyperStore appliances
- Scalable to hundreds of petabytes across regions
- Efficient data protection with compression, replication, and erasure coding
- Encryption for secure data storage
- On-premises S3 with full support for all S3 ecosystem apps
- Dynamic data tiering to Amazon S3, Glacier, and S3-compatible clouds
- Hadoop-ready data store
- Federated geo-replication— replicate data and metadata across geographically distributed data centers
- Comprehensive multi-tenant services
- Quality of Service (QoS) controls
- Straightforward data management
- User-managed credentials in the cloud for added security
- Deploys easily across Amazon, OpenStack and CloudStack
- Self-healing and auto-rebalancing
- Professional services and 24x7 support

ENTERPRISE USE CASES

- Backup and Restore
- Long-term Archiving
- File Sync and Share
- Remote Office File Storage
- Storage-as-a-Service
- Secondary Storage for OpenStack and CloudStack

Effortless Data Movement

HyperStore affords you the flexibility to put your data where you want it and easily retrieve it when you want it. With unique features like object streaming and dynamic auto-tiering, data moves seamlessly between your on-premises cloud and Amazon S3, regardless of file size.

Self-Service IT

Robust management controls, including system health monitoring, make non-disruptive system maintenance and up-grades a snap. As a multi-tenant solution, HyperStore software gives role-based access to system and group administrators and to users.

Cloudian provides an easy to use GUI and REST API to facilitate quotas, user pro-visioning, system administration, usage reporting, billing automation at the group level, and flexible rating plans. Quality of Service (QoS) controls allow IT admin-istrators to control access and usage.

Security

HyperStore AES-256 Server-Side Encryption enables enterprises and service providers to easily encrypt data stored at rest. SSL encryption ensures data confidentiality for data in transit (HTTPS). And with S3-compatible object-level ACLs, system administrators can better manage access to buckets and objects.

Multi-Tenancy

Advanced identity and access management features allow system administrators to provision and manage groups and users, define specific classes of service for groups and users and configure billing and charge-back policies. Both administrators and users benefit from unique reporting options and account and data management capabilities. Multiple credentials per user is also supported. Configurable group—and user-level QoS rate limits ensure groups and users do not exceed storage quotas or consume bandwidth in a manner that impacts other tenants.
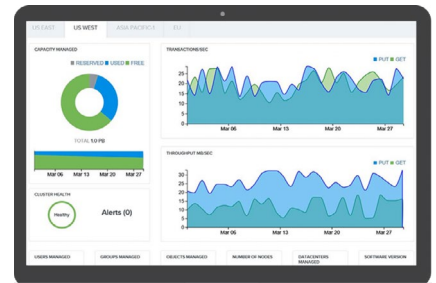
Integrated Billing, Management and Monitoring

HyperStore provides system/cluster monitoring and data management, full provisioning and management of users, groups, rating plans, Quality of Service controls and billing via graphical user interface or RESTful APIs. This comprehensive API coverage enables tight integration with the user's provisioning, authentication and billing systems. Support for multiple billing and subscription revenue models can flexibly support both cloud service providers and enterprise chargebacks. The graphical user interface is highly and easily customizable in order to provide better integration in existing environments.

Broad Application Support

With complete S3 compatibility, HyperStore ensures seamless S3 integration with every available AWS/S3 application. HyperStore allows unmatched customer choice in deploying applications and storage on-and off-premises.

The highly active S3 developer community generates lots of innovative apps in categories including: enterprise secure file sharing; backup, data retention & archiving; NFS/CIFS gateways; and desktop file storage & backup; Cloudian uniquely supports them all.

Cloudian Management Console
One window for configuring, managing, and monitoring.