HyperStore Features and Benefits

CLOUDIAN®

FEATURE	FUNCTION	BENEFITS
100% S3 API Compatibility	Support 100s of S3 applications and all S3 API calls	Allow developers continued use of Amazon's S3 SDK without any changes to S3 APIs in development
Scale-out	Peer-to-peer cloud storage platform with granular storage policy management, reporting and administration	Scale to thousands of nodes and Billions of objects in a bucket. Build reliable, affordable and scalable hybrid, private and public cloud storage solutions.
Multi-tenancy	Support multiple tenants on a single shared storage infrastructure	Multiple users and applications can use and share a single scale-out storage infrastructure. Use Role Based Access Control (RBAC) to control access to users' data.
Self Service	Self Service portal	Users can select and provision storage services on–demand from a service catalog through a self-service portal.
Quality of Service (QoS)	Dynamically set usage rate limits	Use QoS to vigorously control usage rate limits for each group or on a per-user basis.
Quotas	Dynamically set quota limits	Dynamically control storage quotas for each group or on a per-user basis.
Data Protection	Supports replication and erasure coding	Create logical storage policies for groups or users with either replication or erasure coding storage policies or combination. Easily meet your IT requirements for data protection and data availability with SDS policies.
User-Defined Storage Policies	Users can define their own policies for data protection	Allow IT admins to focus on providing Storage as a Service (STaaS) and giving users the self-service look and feel of an AWS S3 service while providing IT oversight and control.
Policy-based Tiering	User-defined policies for migrating data to S3 cloud	Define tiering policy on a per-bucket level. Automatically tier to Amazon S3, Glacier, Google Coldline or other S3 endpoints such as tape libraries.
Turnkey Off-the-Shelf Hardware Appliances	Use off-the-shelf components and x86 industry standard servers	Software defined and modular architecture accommodates hotswappable, redundant and highly available components to eliminate downtime, data migration and forklift upgrades.
Single or Multi-Data Center	Support geo-distributed model	Enables lower latency and provide better cloud services performance with a single global namespace.
Chargeback and Accounting	Support chargeback and usage accounting	Use Cloudian's built-in analytics to easily perform chargeback at the group or user level. Easily create usage and storage reports for accounting purposes.
Security and Encryption	Supports SSL and encryption of in-flight data and data-at-rest	SSL support for secure access and supports AES 256 encryption for data-at-rest on-premises and on public clouds.
Tunable Consistency Levels	Supports Strong, Eventual and Custom consistency levels	Configure logical storage policies with the data consistency levels that you want to meet your IT and data protection requirements.
Store Files as Objects	Metadata and file are bundled into an object	Granular metadata management at the object level and near-infinite scalability of highly available shared storage for the Internet of Things (IoT).
Object Lifecycle Management	Flexible object lifecycle management	Users can dynamically manage their own data and object retention period with IT having the management oversight for security and long-term data protection.
Data Compression	Supports data compression	Reduce storage usage and increase your storage capacity savings with built-in data compression

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Smart Redirect	Local cache copy for replication and more hot spares for erasure coding minimizes downtime	Ensure regulatory compliance and disaster recovery requirements. Minimize downtime and keep the systems running while repairs are in process. Helps protect against unplanned outages.
Proactive Rebuild	Tracks and logs signs of problems with a node, disk, network failure, incomplete IOs	Uses Cassandra database of problem "hints" to quickly pinpoint the problem and rebuild the data in a matter of hours instead of days.
Non Disruptive Rolling Upgrades	Automated rolling upgrades	Use Cloudian's administrative APIs to automate and simplify your day to day operations. Existing HTTP S3 applications are guaranteed to work using the same AWS S3 SDK for building S3 Apps. Existing HTTP S3 applications are guaranteed to work using the same AWS S3 SDK for building S3 applications.
Object Locator	A GPS locator for your objects with Cloudian HyperStore	Object Locator enables an administrator to easily locate any object and determine the number of copies that exist as well as their exact storage location across geographically dispersed data centers to meet compliance regulations.
Smart Support	24x7 access to FAQs, how-to guides and insights from the Cloudian community	Easily create, manage, and track service requests. Find solutions to known issues. Crowd source ideas by engaging with other Cloudian users through customer forums.
Rebuild On Read	Objects are checked on a read request	Missing or out-of-date replicas are automatically replaced or updated.
Versioning	Supports the versioning feature of the S3 API	Users can access different revisions of the same file stored on the system with a S3 client.
Event Notifications	Supports SNMP/JMX monitoring	Use secure SNMP traps and JMX for system monitoring and also for charge back reporting.
Geo Dispersal/ Geo Clusters	Support for multiple data centers and multi-region deployments.	Deploy multi-site clusters for disaster recovery purposes and to ensure your data is highly available and always on.
Replication (CRR)	Supports Replication to other S3 object storage platform	Provide the ability to replicate objects to other S3 endpoints such as another Cloudian HyperStore for disaster recovery (DR).

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