

# InfiniStor Technical Description

ASI Cloud InfiniStor is a highly durable and scalable cloud object storage service designed for a wide range of data storage needs. Built on a carbon-zero infrastructure, InfiniStor offers two distinct storage tiers – Hot and Cold – accessible via industry-standard S3 and S3 Glacier compatible APIs respectively. InfiniStor provides a self-service, feature-rich platform with robust data protection capabilities including versioning, immutability, lifecycle policies, and encryption, all within an all-inclusive pricing model with no egress or API fees.

## Technical Description

Feature	Hot Storage	Cold Storage
Storage Tier	Hot	Cold
Description	Optimised for frequently accessed data requiring low latency access.	Optimised for infrequently accessed data with higher latency.
API Compatibility	S3 API	S3 API
Data Durability	19 x 9's	19 x 9's
Data Integrity	100% Guaranteed	100% Guaranteed
Data Availability	Always Online	Archived, Recall Required
Data Protection	Versioning, Object Lock (Governance & Compliance modes), Lifecycle Policies	Versioning, Object Lock (Governance & Compliance modes), Lifecycle Policies
Encryption	AES256 Encryption, BYOK Option	AES256 Encryption, BYOK Option
Connectivity	Internet, Dedicated Private Link	Internet, Dedicated Private Link

Self-Service Portal	Yes	Yes
Quotas	Soft and Hard Quotas	Soft and Hard Quotas
Underlying Infrastructure	Disk-based	Tape-based
Geographic Redundancy	Protected across three datacentres	Protected across three datacentres
Carbon Footprint	Carbon Zero	Carbon Zero

### Additional Details

- **Data Durability:** Designed for extreme data durability, ensuring data is protected against data loss.
- **Data Integrity:** ASI Cloud guarantees bit-perfect data integrity. In the event of data loss or corruption, a credit for the lifetime storage cost of the affected data will be provided.
- **Data Availability:** Hot storage ensures immediate access to data, while cold storage requires recall before access.
- **Data Protection:** Features such as versioning, object lock, and lifecycle policies protect data from accidental deletion or modification.
- **Encryption:** Data is encrypted at rest using AES256 encryption. Customers have the option to manage their own encryption keys (BYOK).
- **Connectivity:** Provides flexibility with both internet and dedicated private link options.
- **Self-Service Portal:** A web-based portal enables users to manage buckets, users, quotas, monitor usage, and enable features such as versioning.
- **Geographic Redundancy:** Data is replicated across three geographically separated datacentres for enhanced resilience.
- **Carbon Footprint:** Hosted in certified carbon-neutral datacentres, ensuring sustainability.

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