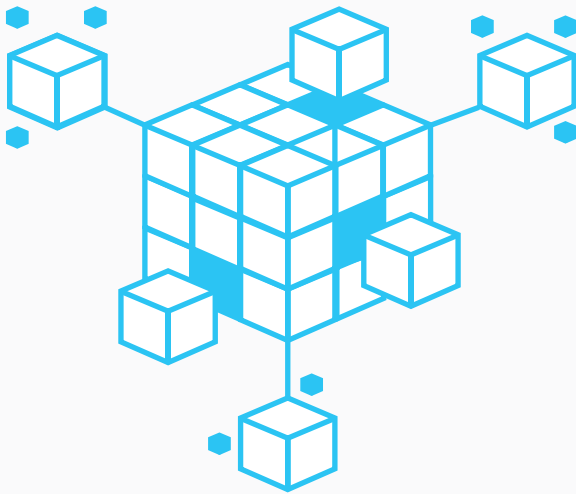# Cloud Storage (S4)

S4: Simple, Secure, Scalable, Sovereign

Exponential-e's Cloud Storage Service is a multi-purpose, software defined object storage solution that will take your business to the next level and lower your operational costs with unmatched storage efficiency, resiliency and simplicity. Built from the ground up to support multiple protocols, Cloud Storage simplifies storage for traditional as well as next-generation workloads with global access and protection.

Disruptive technology trends such as Cloud, Big Data, mobile and social media are redefining the way we work and live and are revolutionising the application landscape. With the adoption of Public and Private Cloud technology, organisations are continually looking for more efficient storage solutions to manage today's hyperscale growth.

Exponential-e's Cloud Storage Service provides a complete object storage infrastructure designed to meet the requirements of a new generation of IT workloads. Regardless of the size of your organisation, Exponential-e's Cloud Storage Service brings simplicity and scale of Public and Private Cloud services to anyone - with the trust, reliability and support you expect from Exponential-e.

Cloud Storage is optimized for workloads that have unique data access requirements, such as Cloud and Big Data.

Cloud Storage (S4) provides:

Flexible Cloud Storage Services: a single storage solution that supports unlimited workloads and applications with geographic protection, detailed metering, a self-service management portal and unlimited scale-out flexibility.

Comprehensive Accessibility: support for Block, Object, NFS and HDFS protocols on a single, globally accessible, highly available platform.

Big Data Performance: a powerful HDFS data service that makes the entire storage solution available for Big Data analytics and information-based application environments.

'Internet of Things' Cloud Storage Solution: offers an efficient 'IoT' architecture for unstructured data collection and analysis at massive scale. In addition, Cloud Storage (S4) establishes an ideal data lake foundation for organizations, maximising user data with its powerful HDFS service, making data analytics a production reality for organizations of any size.

Today, enterprises are often faced with disparate storage silos, geographically dispersed among many locations. Cloud Storage from Exponential-e lets organisations eliminate their silos and unify their data by provisioning and managing storage regardless of whether it is on-premise, physical, or in a Public / Hybrid Cloud environment.

Exponential-e Ltd
100 Leman Street, London E1 8EU

Telephone
+44 (0) 845 470 4001

Visit the website
www.exponential-e.com

Email
info@exponential-e.com

Follow us on Twitter
@exponential_e

SIMPLE

- **Simplifying Storage Complexity:** The complexities and restrictions of outmoded file systems that power traditional NAS and SAN storage arrays can easily offset the potential cost savings of Cloud storage by complicating storage administration, limiting scalability with artificial capacity caps and enforcing vendor lock-in with expensive, proprietary hardware. Exponential-e's Cloud Storage service is a much better fit for Cloud infrastructures.

- **Single Namespace:** Cloud Storage leverages a single flat address space that enables the automatic routing of data to the right storage systems, specifies the content lifecycle and keeps both active and archive data in a single tier with the appropriate protection levels. This allows Cloud Storage to provide better value by aligning the value of data and the cost of storing it without requiring oppressive management overhead to manually move data to the proper tier, while providing infinite scalability to support the capacity-on-demand capability of Cloud.

- **Universal Accessibility:** Cloud storage provides easy access to storage anywhere, any time to any device via HTTP. Cloud storage is commonly delivered as a Storage as a Service (SaaS) application via the Internet, so using HTTP as the primary protocol to access object storage pools. This vastly simplifies the process for customers to integrate Cloud storage systems into their existing storage architectures.

SCALABLE

- **Cloud Scalability:** First and probably foremost in storage administrators' minds is scalability, which is requirement No. 1 when it comes to dealing with the deluge of unstructured data. This is where Cloud Storage stands out: It scales exceptionally well, for both raw capacity and sustained performance. (After all, having all that storage is of no benefit if your systems are constantly straining to access the data without crippling latency issues.)

- **Hardware Agnostic Scalability:** Its impressive scalability story makes Cloud Storage a more cost-efficient solution at the upper reaches of enterprises' capacity requirements. Data mobility also benefits organizations with Cloud Storage because referencing objects by ID, as opposed to file names, makes it easier to move and migrate data, since it's not affiliated with specific hardware.

- **Scalable Management:** Finally, Cloud Storage makes deployment and provisioning easier because of the tight linkage between applications and the underlying storage architecture.

SECURE

- **Secure Multi-tenancy:** Cloud Storage handles multiple accounts, and allows for total isolation of the data associated with an account (in other words, users cannot access one another's data). There is also the ability to share data between accounts, or even publicly.

- **At Rest and Transfer Encryption:** Supports secure transfer of data over Secure Sockets Layer (SSL) and can automatically encrypt data at rest using Advanced Encryption Standard (AES) 256-bit symmetric keys. Following a shared security model, Cloud Storage provides data protection throughout the infrastructure, allowing the customer to focus on core business and applications.

- **Data Sovereignty:** Organizations need to store data to the highest security standards, hosted within their own geographic national borders, behind their own firewalls, and with guaranteed availability. Every element of our service runs through our UK based, privately owned Network and Data Centres to mitigate any data security and privacy concerns. This ensures that data never leaves the Network and remains within the UK, maintaining its sovereignty.

SOVEREIGN

- **UK Data Sovereignty:** Every element of our service runs through our UK based, privately owned Network and Data Centres to mitigate any data security and privacy concerns. This ensures that data never leaves the Network and remains within the UK, maintaining its sovereignty.

- **Private, Secure Access:** We use our Private Cloud to provide access to data driven services, and can guarantee that information remains under the UK's jurisdiction - taking our offering one step further than other providers.

About Exponential-e

Innovation is at the core of Exponential-e, and has been since our inception in 2002. We wholly own our super-fast Network, and our fusion of complementary technologies - a carrier-class Network and Cloud infrastructure - means we can deliver enterprise applications at wire speed for a superior end-user experience. We deliver scalable, dynamic and bespoke solutions. Renowned for our responsiveness, coupled with our customer centric approach, and a UK based 24 / 7 x 365 service desk, means we offer unrivalled expertise.

bsi.
ISO 9001 Quality Management
ISO 14001 Environmental Management
ISO/IEC 20000-1 Information Technology Service Management
ISO/IEC 27001 Information Security Management
CSA STAR Cloud Security
ISO 22301 Business Continuity Management
ISO 50001 Energy Management