

OBJECT STORAGE

RM1557.15 G-Cloud 15 (Lot 1a IaaS/PaaS)



CCS Approved Supplier:

RM1557.15 G-Cloud 15, RM3764.3 Cyber Security Services 3 DPS, RM6116 Network Services 3,
RM6190 Technology Services 4, RM1043.9 Digital Outcomes (DOS) v7, RM3825 HSCN DPS,
RM6094 SPARK DPS; RM6200 Artificial Intelligence DPS

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Overview of the Service

Introduction

Exponential-e™ **Object Storage Service** is an agile, object-based storage platform that delivers petabyte-scale object storage for commodity infrastructure on a geo-scale, software-defined architecture. The system provides the simplicity and low-cost benefits of the public cloud, without the risk, compliance, and data sovereignty concerns:

- ✓ **Simple** – S3, Swift and HDFS compatible; per-GB billing with no data transit charges
- ✓ **Secure** – Encrypted Everywhere
- ✓ **Scalable** – No limits on bucket sizes or number of objects
- ✓ **Sovereign** – UK based.

The storage service enables concurrent multi-protocol access, with support for object and HDFS access to enable in-place Hadoop data analytics.

What Can I Do with This Service?

Universal, Multi-Protocol Object Store

Object Storage provides universal accessibility with support for object (S3, Swift), Atmos, and HDFS – all within a single storage platform.

Big Data Analytics

Object Storage provides a cost-effective HDFS platform that makes all data available to Big Data analytics and information-based applications. S4 enables you to bring analytics to geo-distributed data without any data massaging or Extract, Transform and Load (ETL) processes that can affect data quality and availability.

Object Storage supports common Hadoop distributions such as Pivotal, Cloudera, and Hortonworks with deep integration with PivotalHD.

Cloud Scale Economics

Object Storage brings cloud-scale capabilities and economics to any organisation, with certainty over costs. Object Storage is billed based only on storage consumed: No data transit charges and no API call charges. Enterprises can quickly connect to Object Storage from on-premises systems, hosted systems, and cloud hosted workloads – and realise significantly lower TCO than public cloud storage providers.

Storage Gateway Backend

Cloud Storage Gateways, usually deployed as Virtual Appliances either premises or in hosted environments, provide NAS or SAN presentation of object storage. This enables Enterprise Appliances, typically dependent on NFS or CIFS access, to leverage low-cost and durable object-storage solutions.

Object Storage is compatible with a wide range of third-party storage gateway appliances, including:

- ✓ Panzura
- ✓ Ctera
- ✓ Isilon Edge
- ✓ Nasuni

Key Product Features

Feature	Benefit
Secure & Sovereign	UK Sovereign service, run from Tier-3 data centres with ISO 27001 certification. Data is encrypted: ✓ In-transit, for user access ✓ In-transit, for replication between data centres ✓ At rest
Pay Only for Capacity Used	Predictable, per-GB Billing No data transit charges No API charges
Scale Indefinitely and On-Demand	Eliminates the need for fork-lift storage expansions No minimum term commitments
Concurrent Multi-Protocol Access	Supports concurrent access via S3, Swift, and HDFS protocols Supports in-place data analytics directly on the stored data
HTTP/S Object Access	Can serve end-user content directly, reducing load on web servers
Geo-Replicated Option	Highly Durable Platform, with at least three copies of data Optional Geo-Replication replicates data to a second data centre, maintaining a total of six copies of data Strong consistency model in Geo-Replication deployment

Service Options

There are two options available:

	Protected	Geo-Replicated
Availability Service Level Agreement (SLA)	99.99%	99.999%
Durability Service Level Agreement (SLA)	99.999998%	99.9999998%
Protection Level	Single Site	Dual Site
Effective Number of Data Copies	3	6
Scalability	Unlimited	Unlimited
Retention	Configurable	Configurable
UK Data Sovereignty	Guaranteed	Guaranteed

Service Levels

Exponential-e will use reasonable endeavours to ensure that the availability of the service purchased by the customer in a given calendar month equals the applicable Availability Commitment.

To define availability, Exponential-e monitors a number of service elements — some generic, some service specific — which collectively enable the customer to use or access the service. If the availability of the service is less than the associated Availability Commitment, the customer may request Service Credits for the service within 30 calendar days of the service being deemed unavailable. Service credits are measured in the table below:

Service Credits

Metric	Measure	Service Credit*
Availability	Below Target	5%
	>0.1 Below Target	10%
	>0.2 Below Target	15%
Durability	Below Target	5%
	>0.1 Below Target	10%
	>0.2 Below Target	15%

** The service credit is applied as a percentage of the Monthly Charge for the Object Storage Service for the month concerned (whether based on the fixed Annual Charge, Pay As You Go Charges or, in the case of a Hybrid Billing Model, both).*

Options

Organisations can choose from a range of protection levels:

- ✓ **Protected** – Data is stored in a single named UK-Sovereign Data Centre with data protection using GeoParity coding, for a total of three copies stored. This provides a degree of fault tolerance and so improves data durability.
- ✓ **Geo-Replicated** – Data is stored in two UK-Sovereign Data Centres. Data is replicated with a strong consistency model between the data centres, encrypted in transit, with a total of six copies held. Geo-Replicated provides the optimum degree of fault tolerance (including full site failure).

What Billing Models are Supported?

Exponential-e believes the customer should have as much flexibility in consuming the service as possible. To that end, we therefore support the following billing and consumption models:

Fixed Billing

The customer has a fixed level of resources for a fixed Annual Charge.

Pay As You Go (PAYG)

The customer is charged for the actual resources used in accordance with the Rate Card and the applicable Service Definition and will be billed monthly in arrears. Actual usage levels will be recorded by Exponential-e.

Hybrid Billing

The customer has a minimum amount of resources that are contracted for subject to a fixed Annual Charge, yet retains the ability to use additional resources “on demand” in accordance with the Pay As You Go section above.

Trial Service

Exponential-e offers a 30-day free trial with up to 5TB of storage. Free trials are subject to additional Supplier terms and conditions which are available via the Digital Marketplace.