



Exaba Object Storage

The cheapest object storage on the market - built to grow your MSP and be the driver of your next chapter.

DATASHEET

USE CASES

- Backup-as-a-service for MSPs (Veeam®, rclone on Exaba, and more)
 - Ransomware-resilient backup repositories with Object Lock
 - White-label storage for MSPs, CSPs, and data centres
 - OEM bundles and SI-delivered storage offerings
 - Sovereign, in-country compliance archives (SEC 17a-4, HIPAA, GDPR)
 - Disaster-recovery offsite tier
 - Hybrid-cloud repatriation targets
 - AI / ML training data lakes (read-mostly, high-throughput)
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KEY FEATURES

- **Sovereign storage** - your commodity x86 / ARM / Power; no proprietary appliances
 - **Immutable Object Lock** - governance + compliance for SEC 17a-4, HIPAA, GDPR
 - **Partner economics** - \$2/TB/month or less; up to 80% partner margins; zero egress
 - **White-label, multi-tenant** - your brand on storage, billing, and dashboards
 - **S3-compatible API** - versioning, multipart, tagging, Object Lock; Veeam, rclone
 - **Air-gap mode** - ML-KEM PQ-hybrid external TLS; KMS secured by TPM 2.0 / YubiKey
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CERTIFIED WITH

- Veeam® Backup & Replication 12 & 13 Certified
- rclone Object Storage Provider
- SOC 2 Type I held; Type II expected Q3 2026

OVERVIEW

Exaba is a software-defined, S3-compatible object storage platform purpose-built for backup, archive, and long-term retention, with the headroom to serve AI / ML training data from the same namespace. It runs as a cluster on commodity servers you select - in facilities you control, or in a partner facility within the LocalScaler hosting network - so the storage stays yours rather than rented back from a hyperscaler.

WHY EXABA

Higher margins.

\$2/TB/month or less, with zero egress and zero API fees. Partners typically achieve up to 80% margins on storage capacity sold to their customers. Software, licence, and management are included in one figure; hardware and power are yours, so every customer TB accrues margin to you.

Partner-first.

White-label storage, billing, and dashboards under your brand. Multi-tenant isolation and per-tenant billing built in. Exaba ships the software - we don't sell storage to your customers and never compete with MSPs, CSPs, or DC operators.

Your hardware.

Runs on commodity x86, ARM, or Power - Dell, HPE, Supermicro, Lenovo, or generic ODM. Customer data stays in your country, in your racks, under your operational control. KMS keys live on TPMs and YubiKeys you administer, not on a vendor's cloud.

Ransomware-resilient.

S3 Object Lock in governance and compliance modes delivers SEC 17a-4, HIPAA, and GDPR retention. Validated with Veeam and rclone. An attacker holding operator credentials still cannot delete or overwrite locked versions.

ARCHITECTURE

Capacity grows by adding nodes and drives - Exaba is designed to scale out, with no controller bottleneck. Start with a small cluster and grow it over time. A smart parity engine sizes the erasure-coded stripe at cluster creation against operator-set resilience requirements; a 17+3-class deployment achieves greater than 12 nines of object durability. Built in Rust with a memory-safe userspace data path. Full architectural and operational detail lives in the **Exaba Technical Brief** - ask your sales rep for access.



SECURITY & COMPLIANCE

Encryption everywhere. Inter-service traffic is mutually authenticated TLS 1.3. Data at rest is AES-256, keyed by per-account KEKs in the cluster KMS vault. The vault root is custodied via operator passphrase, YubiKey, TPM 2.0, customer HSM via `secmodule`, or plaintext (flagged in CLI as insecure).

Post-quantum ready. Hybrid ML-KEM-768 / X25519 key exchange on the external client-facing TLS surface (NIST FIPS 203, CRYSTALS-Kyber) defeats "harvest now, decrypt later" attacks on captured ciphertext.

Zero-trust internal. No node, network segment, or operator is implicitly trusted. Every inter-service API call authenticates at the channel level. The install-time site seed anchors machine-to-machine credentials and can be rotated to invalidate prior trust.

Third-party validation. SOC 2 Type I held; Type II expected Q3 2026. Continuous adversarial testing via `Sockjam`, Exaba's in-house tool.

TECHNICAL SPECIFICATIONS

Object protocol	Object Storage API (multipart, versioning, tagging, Object Lock)
OS	Red Hat® Enterprise Linux® 10 / Rocky Linux™ 10
Cluster size	1 node (Edge); 3 nodes min for HA, 5+ recommended; ≥8 drives per node
Nodes per cluster	20 recommended; multi-cluster federation for larger footprints
Throughput	>10 GB/s PUT/GET per node (NVMe-oF, RDMA)
Durability	>12 × 9s; smart parity engine sized to operator-set resilience requirements
Encryption	AES-256, RSA-2048/3072/4096, FIPS, ML-KEM PQ-hybrid external TLS
Key custody	Operator passphrase, YubiKey, TPM 2.0, customer HSM via <code>secmodule</code> , plaintext (flagged)
Object lock	Governance + Compliance
Networking	NVMe-oF, RDMA, bonded NICs
Platforms	x86_64, ARM, Power; Docker (eval only)
Build provenance	Reproducible, signed

DEPLOYMENT OPTIONS

	Backup-as-a-Service	Compliance Archive	DR & Retention	Data Lake
Typical scale	500 TB - 10 PB per tenant pool	500 TB - 1 EB, single jurisdiction	500 TB - 50 PB, replicated across sites	500 TB - 1 EB, single namespace
Key features	S3 Object Lock, per-tenant isolation, usage metering	In-country residency, WORM retention, audit logging	Async multi-site replication, erasure coding, cold-tier economics	S3 API parity, high-throughput reads, parallel access
Validated integrations	Veeam®, rclone, and other S3-compatible backup tools	S3-compatible archive and eDiscovery tooling	Veeam® (validated); async multi-site replication	S3-compatible data-lake and ML tooling
Buyer / who builds it	MSP backup practice lead - sold as a recurring service SKU	Sovereign CSP or regulated end customer - built to a compliance brief	MSP DR practice or SI - designed against an RPO/RTO and \$/TB target	SI, OEM, or enterprise platform team - sized to workload throughput

NEXT STEPS

Get a quote - exaba.com · Book a demo - info@exaba.com · Become a partner - join the LocalScaler partner network.

Need the full technical answer? The Exaba Technical Brief covers architecture, security, and operations in depth - ask your sales rep for access.



Get a quote: exaba.com · Contact: info@exaba.com

All pricing in USD.

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