



Unbreakable cloud storage for data centers



Object storage



Secure IAM multi-tenancy



Always-on



Multidimensional scaling



Immutable data



Cloud-style economics

Scality RING is storage software deployed in your data center to create an unbreakable cloud storage infrastructure.

Built to accommodate the demands of any workload at any scale, it empowers enterprises, government agencies and service providers with data storage that is secure and resilient, highly performant and available. 500+ organizations worldwide trust RING to power critical business workloads, including AI, backup, ransomware protection, analytics, archives, media content delivery and more.

RING deploys on a selection of Supermicro storage-optimized servers, taking immediate advantage of server and media innovation over time. Acting as a single, distributed system, RING scales linearly across three to thousands of servers and multiple sites with the ability to store an unlimited number of objects.

Data becomes unbreakable through erasure coding, replication, immutable object-locking, and multi-geo distribution to achieve 14 nines of durability and a 100% availability SLA. Recognized as a 'Leader' by Gartner and GigaOm – and with integrated support for native file and object with comprehensive AWS S3 & IAM APIs interfaces – RING provides high-performance storage for a variety of workloads at up to 90% lower TCO than legacy solutions.

RING key features

Highlights

- Enterprise-proven scale-out file and object storage
- Software-defined approach leverages industry standard x64 servers
- Unlimited, independent scaling of capacity and performance to petabytes and beyond
- Guaranteed data availability
- Stretched (synchronous) multi-site deployment for site failure protection
- No single point of failure
- Native data protection and self-healing
- All-flash and hybrid storage server support
- Global, domain and detailed level dashboards for monitoring and reporting all aspects of RING processes and hardware

Distributed object storage

- AWS-compatible S3 API and IAM
- Extreme performance RING XP object storage API
- Simple multi-tenant management interface for secure access control
- Replication to secondary site with fully S3-compatible API
- Synchronous geo-stretched deployments for high availability and disaster recovery
- 256-bit data encryption at rest and secure connections over HTTPS
- Built-in S3 browser in UI for easy bucket and object management
- Federated authentication
- S3 service management console

Distributed file system

- Scale-out capacity and performance via NFS v4/v3, SMB 3.0
- Scale-out, high-performance replication with assured consistency
- Asynchronous geo-replication for disaster recovery
- Enhanced write performance for demanding workloads with Storage Accelerator
- Automated transparent file compression
- Concurrent multi-zone/multi-site file access with site failure tolerance

Hybrid-cloud support

- Data management across RING and public clouds with lifecycle and replication policies
- Global metadata namespace, visibility & search across RING & public clouds

Enterprise security

- Key management system (KMS) integration via KMIP 1.2
- Kerberos KDC authentication for NFS v4
- Ransomware protection via S3 Object Lock API
- Multi-factor authentication (MFA) for secure system admin access

Multi-tenancy for service provider deployments

- Integration with VMware Cloud Director Object Storage Extension
- AWS-compatible IAM and V4 authentication
- S3-based quotas for SaaS

Scality RING use cases

RING enables the aggregation of multiple ISV applications and custom-developed workloads into a single storage environment. This eliminates silos, drives increased utilization and creates cloud-like economies of scale to lower your cost of ownership. RING supports use cases across many industries, including enterprises (financial services, manufacturing, transportation and more), government and public sector, healthcare/life sciences, media & entertainment, and cloud service providers. Typical use cases include AI and ML, backup targets, cloud infrastructure, ransomware protection, data archive, and big data analytics.

Scality and Supermicro High-Density Object Storage at Scale

Scality RING is a natural fit for Supermicro because both are built for scale, efficiency, and service provider economics. Supermicro's broad range of high-density server platforms lets customers right-size deployments from day one and expand capacity quickly as needs grow, while Scality RING turns those industry-standard servers into a resilient, software-defined object storage platform that scales without downtime. The result is a cost-effective private cloud foundation with high rack density, strong power and energy efficiency per rack, and a low cost per terabyte, along with the flexibility to support not just dense storage nodes, but also NVMe-based metadata servers and stateless connector services across the same architecture. Supermicro also helps speed deployment with fully integrated racks delivered pre-populated with servers and drives, making it easier for customers to bring large amounts of new capacity online quickly and with less operational overhead.



Built on Scality and Supermicro, Iron Mountain's Iron Cloud object storage service brings together software-defined storage, high-density infrastructure, and service-provider scale to deliver secure, resilient object storage for enterprise data protection and cloud services.

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Cloud-scale system management

With RING, you can easily and cost-effectively manage and automate extremely large-scale, globally-dispersed storage operations. RING Supervisor UI is a comprehensive, unified portal for all aspects of monitoring, management, and maintenance of RING's native AWS S3 and file (NFS, SMB) storage interfaces.

Comprehensive monitoring

- Browser-based administrative interface with full topology view, monitoring, reporting, and graphing
- RING status with Zone, Server and Node details
- Support for monitoring and alerting via SNMP with email, chat, and pager alert options
- "At-a-glance" dashboard with REST API, unified trending and forecasting metrics and KPIs, monitoring, alerts, server and disk monitoring

Intuitive operations and management

- Full management and control with rich and scriptable CLI
- System capacity and performance expansion
- Automated disk failure detection and handling framework
- Automatic rebuild of failed drive data on remaining drives
- Automated storage rebalancing
- Integrated server management
- Integrated zone management
- Easy point-and-click provisioning of S3 and file system services
- UI private labeling and branding

ABOUT SCALITY

Scality solves organizations' biggest data storage challenges — security, performance, and cost. Designed to provide the strongest form of immutability plus end-to-end cyber resilience, Scality solutions safeguard data at five core levels for unbreakable ransomware protection. Delivering utmost resilience, Scality makes storage infrastructures limitlessly scalable in all critical dimensions. The world's most discerning companies trust Scality so they can grow faster and execute AI data-driven ideas quicker — while increasing efficiency and avoiding lock-in. Recognized as a leader by Gartner, Scality S3 object storage software is reliable, secure and sustainable.



storage software
RELIABLE. SECURE. SUSTAINABLE