

Scality RING

Multi-cloud Data Storage at Petabyte Scale



ALWAYS ON



PETABYTE-SCALE



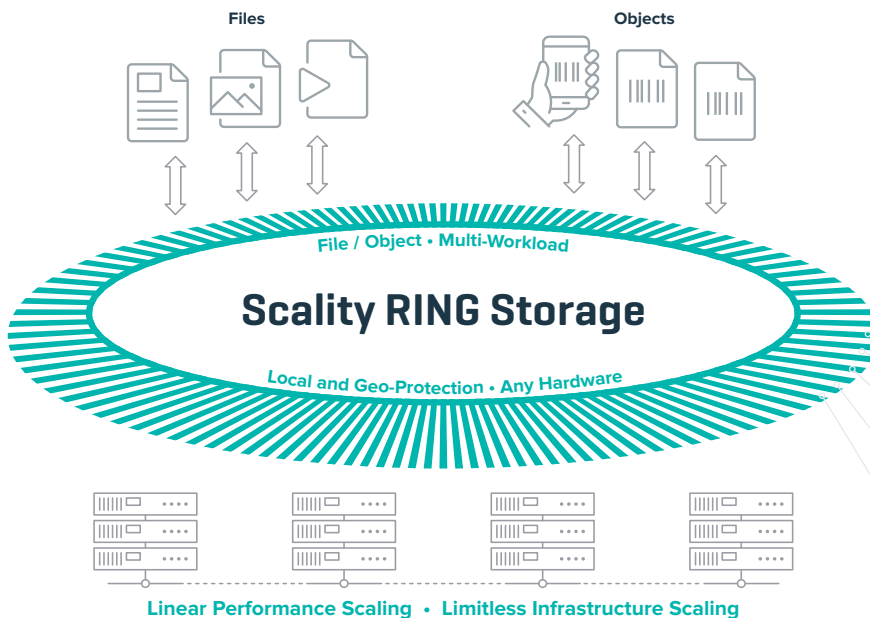
ENTERPRISE
CLOUD-READY



LOW TCO

Software-defined Scality RING object storage enables enterprises and cloud service providers to run petabyte-scale, data-rich services like web applications, VOD, active archives, compliance archives, and private storage clouds.

The RING deploys on any standard x86 server of your choice, taking immediate advantage of server and media innovation over time. Acting as a single, distributed system, the RING scales linearly across thousands of servers, multiple sites, and an unlimited number of objects. Data is protected with policy-based replication, erasure coding, and geo-distribution, achieving up to 14X9s of durability and 100% availability. Regarded as a 'Leader' in file and object storage by IDC and Gartner, and with integrated support for native file, object, and AWS S3 interfaces, the RING provides high performance across a variety of workloads at up to 90% lower TCO than legacy storage.



Highlights

HIGHLIGHTS

- Enterprise-ready scale-out file, object, and AWS S3 storage
- Software-defined -- runs on any x86 Linux servers
- Unlimited capacity and performance scaling
- Guaranteed data availability
- No single point of failure
- Policy-based data protection and self-healing
- Versioning for change tracking
- Volume and bucket data protection

Distributed File System

- Asynchronous geo-replication for disaster recovery
- Efficient large file replication with smart delta based change tracking
- Concurrent multi-site file access

Distributed Object Storage

- Multi-use replication to secondary site or AWS S3; with fully S3-compatible API
- Location control for data sovereignty
- Geo-replication for disaster recovery
- Object encryption for ironclad security
- Simple multi-tenant management interface for secure access control.

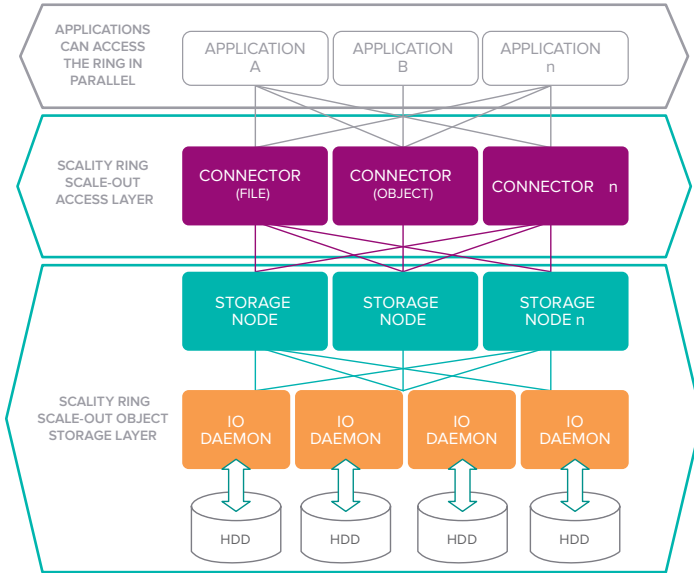
100% reliable with native policy-based data protection and geo-distribution

Advanced routing and object storage for unlimited, linear scalability

Supports any standard x86 servers, even mixed configurations

Consolidates many capacity-driven applications and mixed workloads

High throughput access across file and object interfaces



Any-to-Any Performance

The RING offers superior performance over legacy storage and object-based systems. It ensures high throughput and low latency across small and large files through its unique any-to-any performance capabilities. The platform’s access and storage layers can scale independently to thousands of nodes, all of which can be accessed directly and concurrently. RING Connectors scale performance nearly linearly.

Performance

- File and object performance: horizontally scale connectors to achieve 10’s of gigabytes per second throughput
- Read-ahead cache for sequential IOs: System detects sequential access patterns and repeatedly doubles the amount of data fetched into cache.
- Cache striping optimization for small file random IO: System by default reads only the requested number of bytes into cache (avoids fetching whole stripes – unless sequential access detected).

The Safe Cloud Era

Since the advent of the cloud, concerns about security, availability, data sovereignty, and secure access control have been paramount. Security-focused enterprises struggle daily with adequately safeguarding digital assets and customer privacy and thus could not trust their most prized data to the uncertainty of the public cloud. Scality RING alleviates these concerns with a new era of safe cloud

storage for the most security conscious organizations, placing Scality at the forefront of ironclad cloud security.

Scality RING features data encryption, volume and bucket data protection, data restorative versioning, extended location control for data sovereignty, and geo-replication for disaster recovery.

THREAT	SCALITY RING FEATURE	BENEFIT
Ransomware	File/Object versioning, Volume Protect	Maintain prior versions from before the ransomware impact. Lock access to data so ransomware cannot impact.
Disaster-driven shut down	Asynchronous Replication for Files and Objects	Provide redundant copies of data across different datacenters—for both files and objects.
Customer Privacy Violation	Secure Access Control Lists and Identity and Access Management Interfaces	Secure data access integrated in with your corporate AD system
Internal or External based data hacking	Secure data encryption	Object Data encryption at rest. Store data with strong, industry standard cryptographic algorithms so that data, even stolen, is useless to hackers.
Data Sovereignty non-compliance	Location Control	Limit Object Data to specific RINGs located in different regions

About Scality Scality is a pioneer of software-defined, multi-cloud data storage at petabyte scale. Recognized as a leader in distributed file and object storage by Gartner and IDC, Scality assures data control and freedom to manage data across clouds. Our products scale on-demand, non-disruptively, and drive lower cost for today’s leading enterprise companies.