Hewlett Packard Enterprise

Enterprise Active Archive using Object Storage

HPE Scalable Object Storage with Scality RING

Get more with HPE Scalable Object Storage, together with Scality RING

High performance for mixed workloads—Delivers high bandwidth in a single multi-application environment that includes file and object/S3 applications.

Reliable architecture—Maintains availability through hardware failures, capacity expansions, and software upgrades with minimal intervention.

Flexible scalability—Scales out linearly and limitlessly without adding administrator overhead or additional components.

Easy adoption—Provides an enterprise bridge to object storage solutions within traditional rack server data centers.

Lower costs—Takes advantage of massive consolidation to reduce costs significantly.

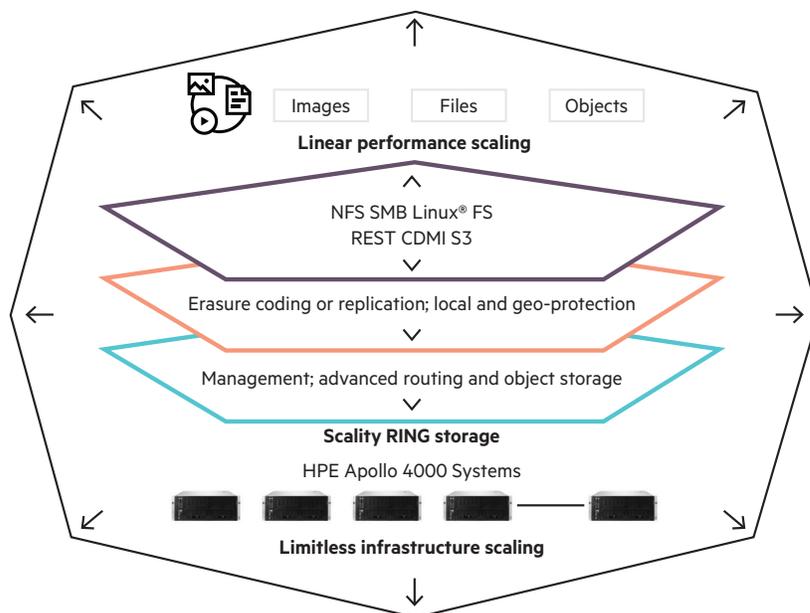**Simplified management**—Deploys and manages storage with the HPE iLO Management Engine.

Figure 1. Scality RING Architecture

Store and access everything

Today's enterprises struggle with rapidly increasing demands for storage in petabytes and beyond. Traditional storage systems can't keep pace with storing, processing, and managing the massive data growth rates within the enterprise.

Using on-premises object storage for backup or archival of structured and unstructured data provides immediate access to data. With Active Archive, everything is online, fully accessible, with near infinite scalability.

HPE Scalable Object Storage with Scality RING scales at your pace—from terabytes to hundreds of petabytes of capacity, to trillions of objects, and supporting millions of users while enabling global data protection and durability at massive scale.

You can choose between native file and object/S3 interfaces while the Scality RING serves, manages, and protects your data as objects. Global policies for erasure coding and geo-replication provide incredibly efficient and durable storage.
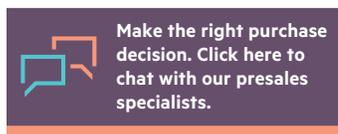
Density-optimized HPE Apollo 4000 Systems are designed specifically for Big Data analytics and object storage. These fully integrated systems allow cost-effective storage and analysis of growing data volumes—while also meeting data center challenges concerning space, energy, and time to results.

HPE and Scality—Supporting the growing demand for data storage by providing an object storage solution that delivers performance, reliability, and massive scalability while also answering today's data center challenges of space, energy, and time.

Learn more at
**hpe.com/storage/
scalableobject**

[1] Scality RING product documentation

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Choosing the right Apollo 4000 System

The HPE Apollo family is designed to deliver efficient rack-scale compute, storage, networking, power, and cooling for specific workloads. These systems are density-optimized for scalability, performance, and efficiency for object storage. They are the ideal choice for deploying Active Archive solutions at any scale, including collaboration, content repositories, backup archives, cold storage, and more.

You can choose the right system based on the size of your data storage needs.

HPE Apollo 4200 Gen9 Server

The HPE Apollo 4200 Gen9 Server is ideal for storage domains of up to 2 PB. This versatile 2U Scality RING server also integrates seamlessly into traditional rack server data centers—with the same rack dimensions, cabling, serviceability, administrative procedures, and management tools.

The Apollo 4200 features up to 280 TB of direct-attached storage per server and 5.88 PB of storage capacity per 42U rack (with 10 TB LFF drives). The Apollo 4200 supports up to 28 hot-swappable LFF SAS or SATA hard disk drives (HDDs) or solid-state drives (SSDs).

HPE Apollo 4510 Gen10 System

HPE Apollo 4510 Gen10 System is a 4U, one server system, purpose-built for object storage solutions at both small and large scale. The Apollo 4510 Gen10 offers up to 60 hot-plug SAS or SATA HDDs or SSDs and up to 600 TB storage capacity per server (with 10 TB SAS HDDs). This equals 6 PB of storage per 42U rack with 10 systems and 600 LFF HDDs.

The Apollo 4510 Gen10 fits in 1075 mm racks, which brings the benefits of a 4U density-optimized system to more data centers. The Apollo 4510 Gen10 also simplifies serviceability with a dual-drawer system that provides convenient side access to hot-plug drive bays.

Why choose Scality RING?

The Scality RING software leverages the power, density, and flexibility of HPE Apollo 4000 Systems to provide an enterprise-class storage solution that scales out linearly for capacity and performance. Scality RING is all about:

Performance—Powered by a highly parallel architecture, the Scality RING provides high throughput and handles both small and large files via a rich choice of protocols and interfaces.

Reliability—The Scality RING provides a range of data protection schemes including replication and erasure coding to achieve up to 14 nines of durability.[1] A unique hardware-agnostic architecture enables near-continuous uptime through problem resolution, expansions, and upgrades.

Scalability—Acting as a single distributed system, Scality RING supports scaling well beyond petabytes and hosts a practically unlimited number of objects. With Scality RING, you can adopt new technology as it becomes available, including larger drives, new-generation hardware, or software updates.

Get ready for exceptional performance, reliability

Contact your HPE or Scality representative today. Find out how you can manage the rapid growth of unstructured data with a solution designed to optimize the retention and placement of massive amounts of data while achieving cloud-scale economics and robustness.