FURTINET | Hewlett Packard Enterprise | SCALITY

Scalable, Secure Solutions for Distributed Object Storage Environments

Operate object storage with confidence using FortiADC, HPE Apollo Series, and Scality RING

Performance and reliability require innovative solutions

Today's 24/7/365 enterprises require a reliable, scalable, high performance workload storage distribution solution for always-on object storage environments. Fortinet, HPE, and Scality have teamed up to provide an enterprise solution for these environments that enables workload distribution in these environments.

Resiliency and scalability challenges

Many organizations face severe challenges with reliable, scalable storage, and secure infrastructure. Modern workloads and customer-facing apps require extensive resources and high-performance interconnects. Some of the challenging areas include:

Painful tradeoffs

Many turn to cloud hyperscalers for object storage, but you can incur fees sending and retrieving distributed data and are at the mercy of their infrastructure. Enterprises need solutions to mitigate the cost of these tradeoffs.

Supporting modern apps

Modern applications are changing requirements for data storage and data access. They demand faster access to distributed data without the expense, time, or resources needed to migrate and move data for application use.

Struggle to scale

Storage media must change to address new requirements; legacy storage components struggle to scale up or out without major cost, disruption, complexity, and overhead.

Data center constraints

It can be challenging to modernize and scale storage systems while working within the constraints of traditional rack server data center.

Store and access everything

Traditional storage systems can't keep up with storing, processing, and providing access to all distributed and unstructured data, which is quickly expanding to petabytes and exabytes in size.

Resiliency adds overhead

Many on-premises storage solutions don't allow organizations to reduce storage and overhead costs while still delivering superior data durability, particularly for cloud-native apps that need resilient scaling from the start.

Files   Objects

Scality RING

FortiADC
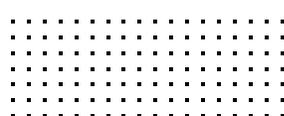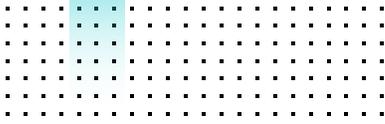
Protection, scale, and reliability

Fortinet, HPE, and Scality's teaming offers enterprise solutions with unmatched distribution, protection, scalability, reliability, and performance for essential object storage workloads. Integrating the Fortinet, HPE, and Scality frameworks opens the door for innovations across infrastructure, storage, and applications. The solution elements include FortiADC, HPE Apolllo Series storage servers, and scalable object storage with Scality RING.
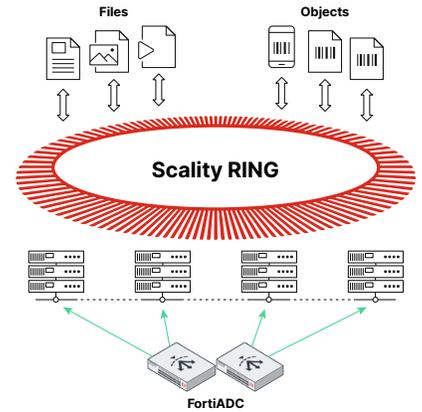
HPE Apollo 4000 Systems storage servers. Apollo 4000 Systems with Scality RING provide a software-defined storage platform designed for high performance, cloud economics, and reliability for large-scale storage needs. Apollo 4000 Systems, designed for Big Data analytics and object storage systems, offer:

- **Lower costs** based on large scale consolidation
- **Easier adoption** with offerings that maintain traditional rack servers and density-optimized object storage solutions
- **Simplified management** using HPE Integrated Lights-Out (iLO) Management Engine

Scalable object storage with Scality RING. The HPE and Scality solutions satisfy today's storage requirements with the scalability necessary for supporting data growth. Scality RING leverages the capabilities of HPE Apollo 4000 Systems to offer solutions that scale-out linearly in performance and capacity. Benefits include:

- **Performance.** Powered by parallel architecture, Scality RING provides high-throughput performance for small and large files
- **Reliability.** Scality RING provides a diverse set of data protection and up to 99.999999999999% durability
- **Scalability.** Scality RING operates as a single distributed system and supports scaling beyond petabytes and hosting of unlimited objects

Fortinet Application Delivery Controllers (FortiADC). FortiADC is an advanced ADC that supports load balancing across multiple Scality RING clusters. Our Web Application Firewall (WAF) protects apps against potential threats, while hardware-based SSL offloading enhances performance. FortiADC enables 24/7 storage availability through automatic failover, automatic load balancing, and optimized WAN connectivity.

Better together

Fortinet, HPE, and Scality offer protection for large-scale object storage deployments for on-premises and cloud environments. The solutions utilize FortiADC for load balancing across Scality RING clusters. Together, Fortinet, HPE, and Scality deliver cutting-edge object storage solutions that safeguard enterprise data and meet the demands of business growth.

Next steps

For additional information about the products and solutions mentioned, contact hpesales@fortinet.com.