



Scality RING on Cisco UCS Servers

Store Data at Scale



Consolidate file and object-based data in one storage pool.

You can scale to petabytes without downtime or slowing performance with a solution that combines proven Cisco Unified Computing System™ (Cisco UCS®) infrastructure and Scality software.

Overview

Staying ahead of your competitors requires fast innovation and fast IT. Your storage system can help—or hurt.

Traditional storage is designed for structured data, such as databases. Typically, it supports one application and one kind of workload. It serves up data to people and applications that are connected to the same local network.

Today, storage needs change constantly. Employees, partners, and customers now access data over the WAN and Internet. You're storing more unstructured data, such as Office files, email, video, and audio recordings. You might be collecting and analyzing data from the Internet of Things: temperature readings, machine performance logs, and more. According to Worldwide File- and Object-Based Storage Forecast, 2016–2020, object-based storage capacity is expected to grow at a CAGR of 30.7% from 2016 to 2020, reaching 293.7EB in 2020.¹

Now you can create a single storage pool for most unstructured data—file, object, using Scality RING on Cisco Unified Computing System™ (Cisco UCS®). Our software-defined storage solution is the most cost-effective way to store and protect massive amounts of data in the Internet of Things era.

More Data, More Users, More Locations

Today storage capacity is measured not in terabytes but in petabytes and exabytes. You're storing more and more unstructured data, such as high-resolution satellite imagery, surveillance video, medical images, seismic data, and data from the Internet of Things.

What's more, the people who need access to data are less likely to be on the same campus as the storage. Employees, partners, and customers need to access active and archived files over the WAN or Internet. Downtime for maintenance is unacceptable.

Introducing Scality RING Software-Defined Storage on Cisco UCS

Cisco and Scality have developed a software-defined storage solution that's economical for enterprises of any size. The solution consists of:

- **Storage cluster.** Deploy Scality RING software on Cisco UCS storage servers (Figure 1). Start with as few as three servers, and scale to hundreds or thousands.
- **Connectors.** choose connectors for file and object interfaces to the applications that you use to deploy the connectors as instances on the same servers used for storage, or else on separate Cisco UCS servers.
- **Management software.** Deploy the Scality Supervisor as a virtual machine or on a dedicated Cisco UCS.

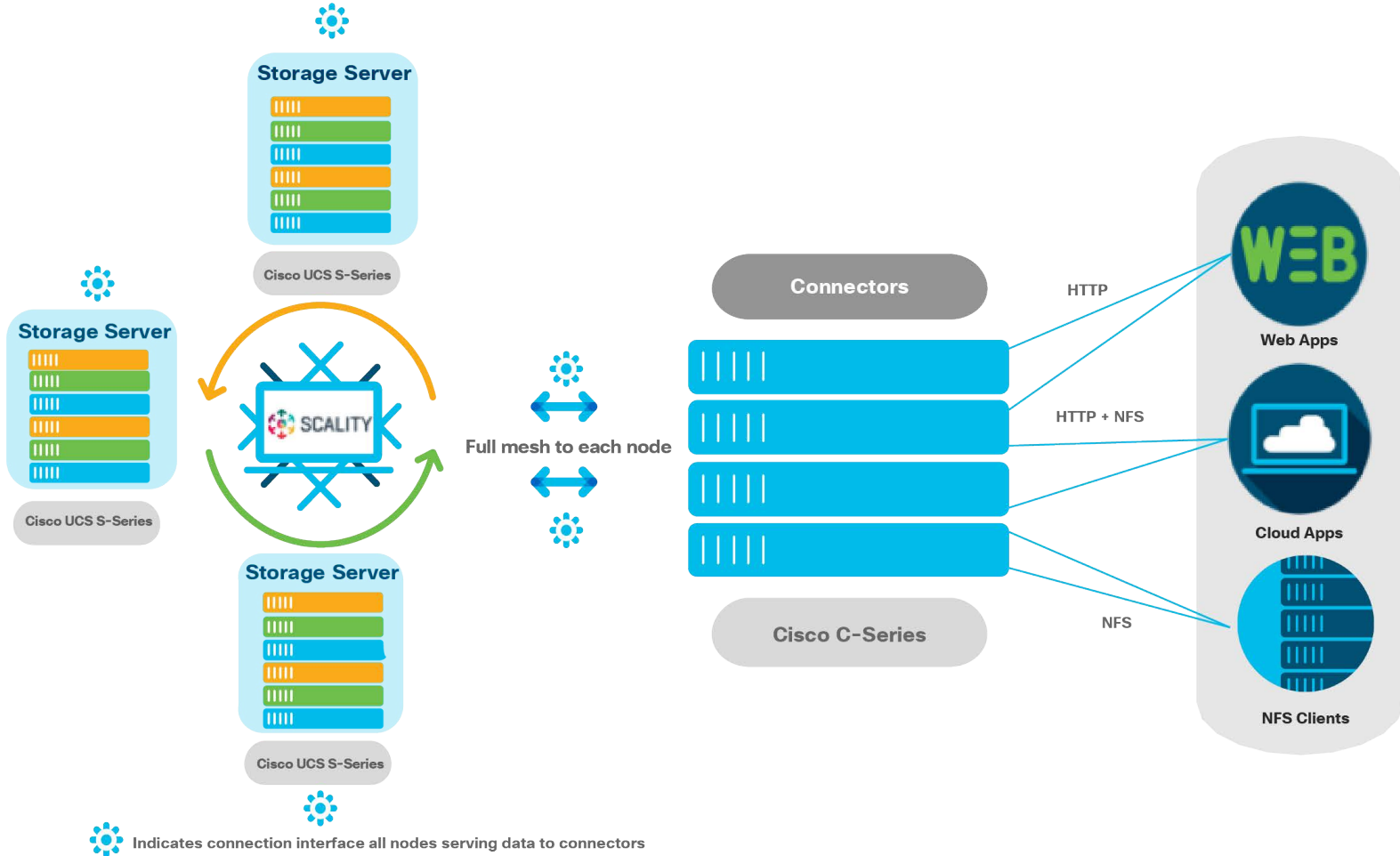
1. IDC #US41685816, September 2016
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Benefits

- **Increase business agility** by creating a single storage pool that any application can access, with performance scaling linearly.
- Serve up files and data to users **anywhere in the world**.
- Flexible options for ensuring **data durability** provide for the most efficient storage to meet specific availability needs.
- Use erasure-coding, replication, and geographical dispersals to ensure data availability at the level that works for you business.
- **Cisco UCS protects your investment** by supporting your storage footprint today, and additional storage you add in the future.
- **Simplify management** by consolidating storage silos (NAS, object, and tape) into one pool. You can scale nearly without limit, and the software self-heals.

Figure 1: Build a Scalable Software-Defined Storage Pool with Scality RING



“As businesses move toward petabyte-scale data storage, OBS [object-based storage] solutions are turning out to be the right choice for balancing scale, complexity, and costs. By way of their core design principles, OBS platforms deliver unprecedented scale at reduced complexity and reduced costs over the long term.”



-IDC MarketScape Worldwide Object-Based Storage 2014 Vendor Assessment Report

Scality Ring with Cisco UCS technology enables you to:

Backup and Archive

Backup data seamlessly while keeping it online with active archives featuring exabytes of capacity for unstructured data. The archives serve up files as fast as disks do, and for lower long-term costs than tape.

Media Nearline Archive

Make your media post-production workflow more efficient with Scality RING offloading costly SAN, and increase productivity by enabling media processing (such as video transcoding) in-place.

Medical Imaging

Keep electronic patient health information (ePHI) safe, intact and available—readily and quickly—to improve care team productivity and patient care. Scality delivers, providing superior data durability with on-line availability that's guaranteed, and low TCO.

Private and Hybrid Cloud

Replace storage silos with a single pool that can handle the data types and access patterns required by both legacy and modern applications.

Public Cloud

Store more, reliably, for less. Scality's 100% availability guarantee and robust durability options, combined with cloud-style economies that it brings make Scality RING the ideal storage for cloud service providers. The RING provides nearly unbounded capacity that scales without downtime, so end customers see no loss of availability.

Video Content Distribution

Build scalable origin storage infrastructure for video distribution. Stream high-definition media for a fraction of what you'd pay for origin storage from content delivery network (CDN) providers. Use Scality RING on Cisco UCS as origin storage for nonlinear content distribution methods such as network digital video recorder (DVR), network personal video recorder (nPVR), and video on demand.

Cisco Services

Cisco Services supports your software-defined solution through its entire lifecycle. We help as you plan, build, and manage the solution. We can also recommend local partners and provide on-site support if needed.

During planning, we help you assess existing infrastructure, identify goals and gaps, and develop a deployment plan. When building the solution, we'll help you deploy the servers and Scality RING software and integrate with existing systems. We can also help you manage the deployment.

Why Cisco and Scality

Cisco and Scality provide a cost-effective solution for storing exploding volumes of big data. Our joint solution:

- **Guarantee Durability:** Cisco and Scality allow you to Scale easily and without disruption.
- **Demonstrates Business Agility:** Our Solution supports innovation and digital transformation allowing you access to your data from anywhere in the world.
- **Verified Low TCO and High ROI:** We provide value for today and tomorrow with lower storage costs, reducing operational costs while increasing IT efficiency and productivity.

Learn More

[Cisco Validated Design for Scality RING deployment on Cisco UCS.](#)

Request more information or set up a meeting by emailing cisco@scality.com.

