Scality RING on Cisco UCS Servers

Proven durability and availability

Demonstrated business agility

Verified low TCO and high ROI

The Old Storage Model is Broken

Traditional storage is designed for structured data, such as databases, but what is exploding exponentially is the volume of unstructured data, now measured in Petabytes and Exabytes. 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].

Today, storage needs change constantly. Employees, partners, and customers now access data over the WAN and Internet. Data needs to be available at any time and from anywhere. Downtime for storage maintenance or upgrade is unacceptable.

1. IDC #US41685816, September 2016

Store Data at Scale

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.

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.

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.

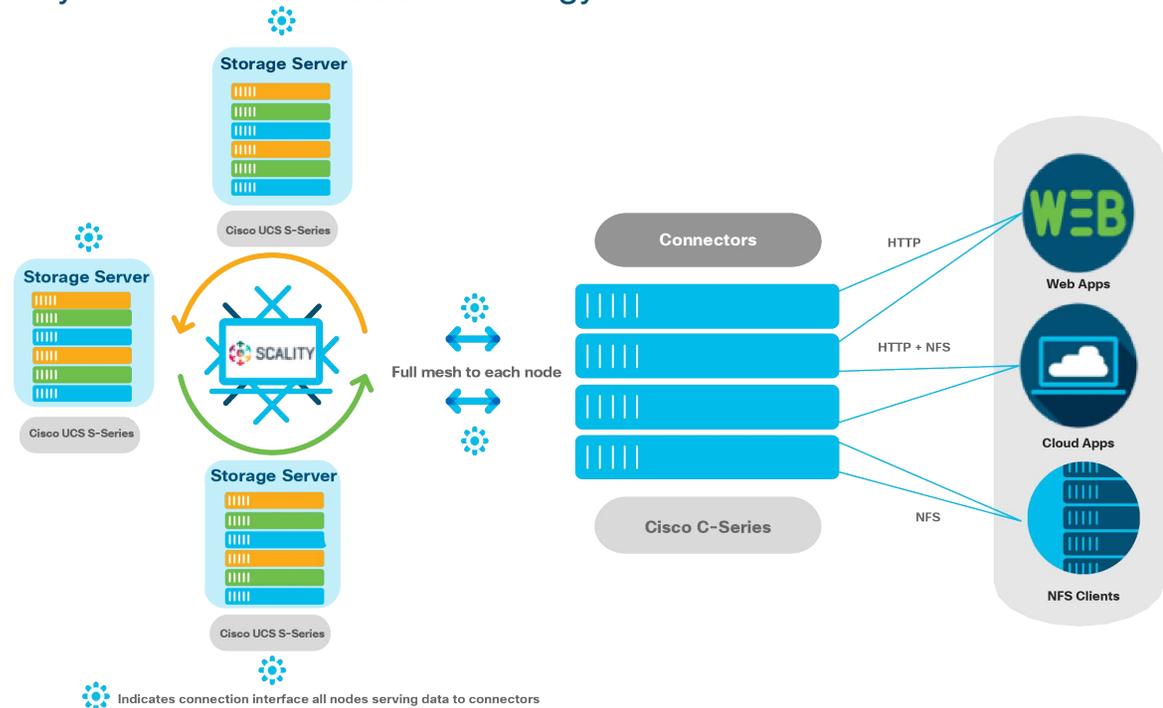### Video Content Distribution
Build scalable origin storage infrastructure for video distribution. Stream high-definition media for a fraction of what you'd pay for origin storage from content delivery network (CDN) providers. Use Scality RING on Cisco UCS as origin storage for nonlinear content distribution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

Solution

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.

Scality RING with Cisco UCS technology :

Indicates connection interface all nodes serving data to connectors

Why Cisco and Scality

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

- Reduce the effort to manage petabytes at scale: Manage the entire environment using Cisco UCS Manager and UCS Director.

- Predict future investments: Scality RING on Cisco UCS scales linearly, making it easier to forecast expenditures.

- Increase agility: Cisco UCS disaggregates compute, network, and storage systems. UCS Manager composes the systems to meet RING's need at any given moment. Composable infrastructure increases business agility and reduces total cost of ownership.