Object Storage of Unstructured Data for Federal Civilian Agency

Requirements

- On-prem storage delivered as-a-Service
- Competitive pricing to public cloud
- Scalable from 4.5PiB to 36PiB, and beyond
- Support multi-site configuration for primary storage and DR
- Role Based Access Control for Security

Results

- Software Defined Storage for PB scale
- Support object & file-based applications natively
- Distributed system on industry standard Supermicro servers
- No single points of failure with no downtime
- Flexible financial model

ViON is partnering with Scality and Supermicro to deliver on-premise storage for primary and disaster recovery for unstructured data for a Federal Civilian Agency that requires archive class storage. ViON offers a flexible financial model competitive with public cloud that can scale to add capacity over time.

Business Problems

This civilian agency maintains massive volumes of data that must be stored and protected in alignment with the Agile System Development Life Cycle (SDLC) framework to reduce risk and effectively manage and deliver IT projects. The customer needed on-premise archive class storage for a primary and a disaster recovery (DR) site for data life cycle management and retention requirements that could scale from 4.5PiB of storage to 36PiB (per site). To avoid up-front capital outlays, the customer was looking for an Infrastructure as-a-Service (IaaS) model that was competitive with Public Cloud storage pricing but could be deployed on-site and consumed over a period of 10 years. They also had requirements for Information Lifecyle Management (ILM) and reporting.

Solution: Infrastructure as-a-Service

Scality RING is a software defined native file and object storage solution for large on-premise storage of unstructured data. With a cost model that provides licenses for the primary site with no charge for replicated data to the disaster recover site, Scality was uniquely positioned to satisfy all of the customer's requirements with a native solution. Leveraging Supermicro hardware, ViON implemented independent RINGs within each data center that can be expanded, non-disruptively, by adding network attached storage nodes.

ViON offered a Flex Lease Program for this solution. The base system was procured as a lease, and the future program growth will be procured based on ViON's aaS model. With this approach, the customers can take advantage of the lower cost of the lease program for the base system. When the storage migration effort fully consumes the base system in the future, they can leverage the IaaS Program's flexibility to add incremental capacity to the base system.

ViON / Scality / Supermicro Solution

▶ Software Defined Storage (SDS) solution for PB scale data storage

▶ Distributed system deployed on industry standard Supermicro servers

▶ No single points of failure with no downtime for upgrades, scaling, planned maintenance, or unplanned system operations

▶ Underlying hardware can be comprised of server of any form factor and density

▶ Hardware flexibility allows for capacity-optimized, performance-optimized or a mix of both RINGs

▶ Stores data across Storage Nodes using Erasure Coding (EC)

▶ Supports S3 compatible REST API, NFS v3, SMB 3.x, LocalFS (FUSE), and CDMI REST client access formats

▶ S3 bucket encryption supported for data encrypted at rest – 256bit algorithms

Solution Includes

▶ Scality RING Supervisor Node

▶ Scality RING Connector Nodes

▶ Scality RING TwinPro and SuperStorage

▶ Supermicro Switches

▶ Engineering and Installation Services

What ViON Delivered:

Flexible pricing model

Engineering and **Installation** Services

Lower cost of computing, networking, and storage capacity

US-Based **Support Center** staffed by **TS/SCI** cleared engineers

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About ViON Corporation

ViON Corporation is a cloud service provider with over 40 years' experience designing and delivering enterprise data center solutions to government agencies and commercial businesses. We provide IT as-a-Service solutions including on-premise public cloud capabilities to simplify the challenges facing business leaders and agency executives.

About Scality

Scality builds the most powerful storage tools to make data easy to protect, search and manage anytime, on any cloud. We give customers the freedom and control necessary to be competitive in a data driven economy. Recognized as a leader in distributed file and object storage by Gartner and IDC, we help you to be ready for the challenges of the fourth industrial revolution.

About Supermicro

Supermicro is a leading innovator in high-performance, high-efficiency server technology and a premier provider of advanced server Building Block Solutions® for Data Center, Cloud Computing, Enterprise IT, Hadoop/Big Data, HPC and Embedded Systems worldwide.

ViON
Building your enterprise solutions

SCALITY

SUPERMICRO