Nimble Storage SmartStack Solutions with Cisco UCS

Accelerate Datacenter Infrastructure Deployments with Cisco and Nimble Storage

Enterprises large and small are looking to deploy business-critical applications, Oracle database, virtual desktop infrastructure, and private clouds in the most cost-effective and flexible manner possible. With today's fast-growing datacenter needs, IT organizations often face challenges with performance, deployment times, and other issues that impact their return on investment.

Nimble Storage's pre-validated SmartStack solutions with Cisco® and ecosystem partners, including Citrix, Microsoft, Oracle, and VMware, help IT tackle datacenter infrastructure deployments. These joint solutions can be quickly deployed, are easy to manage, and deliver the performance and capacity that customers demand.

SmartStack for business-critical applications with VMware consists of:
Cisco Unified Computing System (UCS)
VMware vSphere, Microsoft Exchange, SQL Server, and Sharepoint
Nimble Storage CS-Series storage arrays

SmartStack for Oracle consists of:
Cisco Unified Computing System (UCS)
Oracle database on Oracle Linux
Nimble Storage CS-Series storage arrays

SmartStack for VDI consists of:
Cisco Unified Computing System (UCS)
Citrix XenDesktop or VMware Horizon View
Nimble Storage CS-Series storage arrays

SmartStack for private cloud consists of:
Cisco Unified Computing System (UCS)
Microsoft Windows Server 2012 with Hyper-V
Nimble Storage CS-Series storage arrays

Accelerate Your Deployments

A Proven Recipe for Success

Cisco and Nimble Storage have developed pre-validated solutions to help customers quickly deploy infrastructure with minimal risk. All compute, network, storage, and desktop and server virtualization components work together out of the box. Cisco's stateless server provisioning with UCS Manager, each virtualization vendor's management suite, and Nimble Storage's wizard-driven provisioning make deployments simple and fast. Prescriptive reference architectures help lower risk and accelerate deployments— further improving ROI.

Low-Touch, High-Performance Operations

By using predefined templates for provisioning and leveraging modular building blocks for scaling, the joint platform simplifies initial provisioning and the ongoing maintenance. Cisco UCS Manager and the virtualization management solutions provide powerful, yet intuitive ways to keep the end-to-end virtualized infrastructure running optimally.
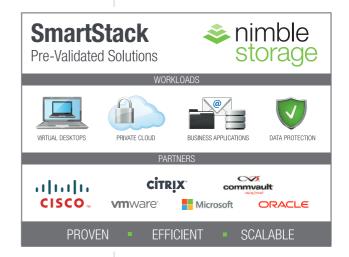
Solution Benefits

Pre-validated solutions allow you to:
Accelerate deployments
Reduce risk
Improve productivity and ROI
Flexibly scale to handle growth

SmartStack Pre-Validated Solutions

WORKLOADS

VIRTUAL DESKTOPS · PRIVATE CLOUD · BUSINESS APPLICATIONS · DATA PROTECTION

PARTNERS

CISCO · CITRIX · commvault · vmware · Microsoft · ORACLE

PROVEN · EFFICIENT · SCALABLE

Nimble Storage SmartStack solutions are pre-validated reference architectures which leverage best-of-breed storage, compute, network, and virtualization technology.

Do More with Less

By leveraging pre-validated solutions, IT organizations can also take advantage of:

High Performance: Nimble Storage arrays with Cisco UCS servers deliver the adaptive performance to handle rich virtualization functionality, in a compact footprint. This, along with each virtualization partner's provisioning services allows IT to maintain a positive user experience through periods such as boot/login storms, patch operations and upgrades.

Greater Consolidation: Whether for desktop or server virtualization, each virtualization partner's management solution frees up IT organizations from the rigors of desktop creation and inefficient deployments by centralizing the efficient provisioning of virtual desktops and servers. This functionality complements Nimble Storage's use of high-capacity disks and inline compression to accommodate thousands of users in a 3U appliance, as well as the dense compute and I/O capabilities of the Cisco UCS blade servers, allowing for hundreds of users per server. IT organizations can see 30 to 75 percent reduction in their data footprint and as much as 50 percent reduction in the physical foot print compared to traditional solutions, with no end user impact.

High Availability: Cisco UCS and Nimble Storage arrays both incorporate redundant components, with no single point of failure, along with proactive monitoring and reporting. These features complement Nimble Storage snapshots for instant backups and fast restores. The result is less end-user disruption and fewer calls to the helpdesk. In addition, Nimble's replication capabilities can efficiently send data to a remote location for true disaster recovery.

Scalable Infrastructure that Grows with Your Business

By adopting a modular building block approach of integrating compute, fabric, storage, and virtualization into a single architecture, IT can start small and independently scale horizontally or vertically to large deployments, supporting thousands of virtual desktops and hundreds of virtual servers as needs grow.

Nimble Storage's scale-to-fit functionality lets IT independently and non-disruptively grow storage performance and capacity by upgrading controllers, increasing cache, and by adding additional capacity. Cisco UCS scales by adding blade servers, taking advantage of its stateless computing model based on UCS service profiles for rapid server provisioning, and a scalable IO architecture.

Get Started Today

Cisco and Nimble Storage have created validated solutions for virtual desktops and servers that are cost effective and easy to manage and scale. This prescriptive solution takes the guesswork out of virtualization planning and validation, helping large and small IT organizations accelerate the move to a virtual desktop environment.

For more information on how Cisco and Nimble Storage work together, visit http://www.nimblestorage.com/solutions/alliances/index.php#Cisco or contact an authorized reseller.

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