



Nimble Storage SmartStack for Windows Server with Cisco and Microsoft

Start Smart and Scale with Nimble Storage CS-Series for Private Cloud with Cisco UCS and Microsoft Windows Server

Tackling the journey to the virtual datacenter and private cloud while meeting business criteria around costs, service levels and timing is now easier than ever before with the pre-validated Nimble Storage SmartStack for Windows Server with Cisco® and Microsoft. This pre-tested solution leveraging Cisco Unified Computing System™ (UCS) and Windows Server with Hyper-V technology eliminates much of the guesswork involved in planning and sizing, and in provisioning and operations for private cloud deployments.

At the core of this pre-validated private cloud architecture is the Microsoft Windows Server® 2012 with Hyper-V and System Center 2012, which transforms your IT operations to deliver an entirely new level of business value. Accompanying the Hyper-V technology in the reference architecture are the efficient, flash-optimized Nimble Storage CS-Series arrays and the flexible Cisco UCS C-Series rack mount servers. Together they allow IT organizations to start small and cost-effectively deploy on-premises private cloud implementations and scale as needed.

By deploying this solution IT organizations can:

Respond faster to changing business needs while lowering project risks:

- End-to-end modular reference architecture with server, storage and virtualization for 75 virtual machine (VMs) deployments streamlines planning process

Improve the application responsiveness and scale to fit changing needs without the upfront cost:

- Nimble Storage's Flash optimized hybrid CS-Series and flexible and high performing Cisco UCS C-Series deliver the storage and compute performance and scalability

Be more efficient by controlling and reducing costs, accomplishing more with less:

- Efficient Nimble Storage and dense Cisco UCS cut power, space and cooling costs complementing Microsoft Hyper-V technology

Improve productivity across the board by taking on more productive tasks without impacting service levels:

- Simplified management, automation and efficient infrastructure reduce time spend on daily tasks

Here is the validated design for deployments requiring up to 75 Windows Server Hyper-V virtual machines in a highly available environment:

Storage

- Nimble Storage CS200 Series

Compute

- Two to four Cisco UCS C220 M3 rack mount servers
- Two Cisco UCS Fabric Extenders and Cisco UCS Fabric Interconnects

Microsoft Windows Server 2012 with Hyper-V

Using this solution approach, virtualized applications run on Cisco UCS C220 M3 Rack Mount Servers with Microsoft Windows Server 2012 with Hyper-V. The UCS and Hyper-V deployments are managed with UCS Manager and Microsoft System Center 2012.

SmartStack Solution Overview

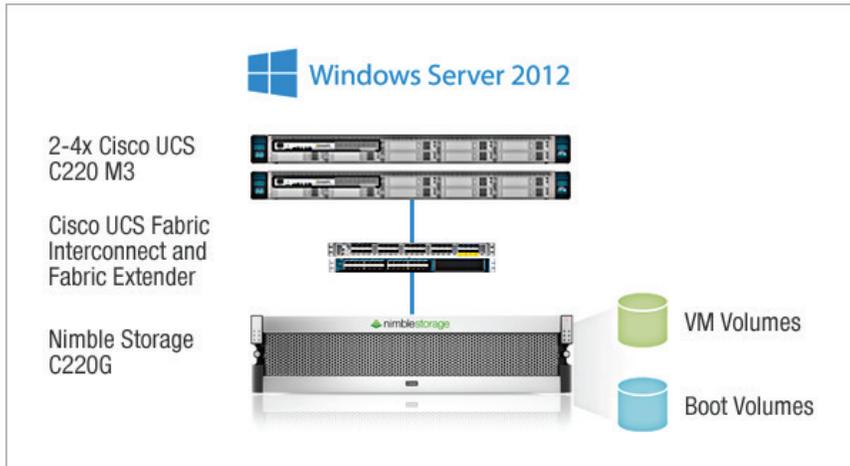
Built on the Nimble Storage CS200 Series, the Cisco UCS C-Series, and Microsoft Windows Server 2012 with Hyper-V, the pre-tested and validated Nimble Storage SmartStack for Windows Server with Cisco® and Microsoft simplifies the journey to a Windows-based private cloud.

- Respond faster to changing business needs by providing quicker deployments with lower project risk
- Accelerate applications and flexibly scale by improving responsiveness of critical applications and scaling to fit business needs
- Get measurable efficiency by reducing costs, accomplishing more with less, and by Improving productivity across the board by taking on more productive tasks without impacting service levels



The Nimble Storage CS200 Series also delivers the storage performance and capacity that private cloud deployments need for hundreds of users in 3U of space. It connects to the UCS Fabric Interconnect using 10-gigabit Ethernet eliminating any bottlenecks in the storage network. The environment is highly available thanks to the active-standby storage controllers, redundant network connectivity and Microsoft Failover Clustering.

Nimble Storage CS-Series is an ideal complement to the Cisco UCS and Microsoft Windows Server 2012. This prescriptive solution takes the guesswork out of private cloud planning and validation. Get started by contacting your local authorized reseller or contacting us at info@nimblestorage.com. Follow us @NimbleStorage on Twitter.



Validated design leveraging Nimble Storage CS-Series arrays and Cisco UCS for 75 virtual machines with Microsoft Windows Server 2012 with Hyper-V



2740 Zanker Road, San Jose, CA 95134
Phone: 408-432-9600; 877-364-6253
Email: info@nimblestorage.com
www.nimblestorage.com



© 2013 Nimble Storage, Inc. All rights reserved. Nimble Storage, InfoSight, and CASL are trademarks or registered trademarks of Nimble Storage, Inc. All other trademarks are the property of their respective owners. SB-SMST-WIN-CSCO-0413