

Virtualizing Microsoft SharePoint for Small and Medium-Sized Businesses

Highlights

Predictable Performance

- The solution is based on a balanced approach to resources including, a high-bandwidth network fabric with low, deterministic latency, high-performance Intel® Xeon® processors, and up to 24 terabytes (TB) of disk storage per server.

Lower Total Cost of Ownership

- The solution has lower capital cost due to the radically simplified architecture of the Cisco Unified Computing System™ (Cisco UCS®), and lower operating costs due to reduced complexity and simplified management.

Rapid Deployment

- Cisco UCS provides intelligent infrastructure that is ready out of the box.

Reduced Risk

- Reliable, highly available infrastructure helps ensure continuous access to Microsoft SharePoint.

Built to Scale

- The solution scales rapidly, with automated configuration to meet the largest collaboration workloads.

Support a range of collaboration initiatives with easy deployment on Cisco Unified Computing System.

Cisco Unified Computing System™ (Cisco UCS®) with Microsoft SharePoint 2010 running on Microsoft Windows Server 2008 R2 Hyper-V enables and accelerates collaboration tool deployment with validated configurations that help ensure interoperability, decrease complexity, and increase efficiency for small and medium-sized businesses.

This Cisco® solution is available to meet the collaboration needs of small and medium-sized businesses by running Microsoft SharePoint 2010 software in a virtualized environment. This solution delivers a high-performance and scalable platform with the Cisco UCS C240 M3 Rack Server as the basis of the solution (Figure 1). Small businesses can host their entire environment, with redundancy, on two Cisco UCS C240 M3 servers. As they grow, they can add more servers to the Microsoft SharePoint farm. Small and medium-sized businesses can take advantage of the power and cost savings of server consolidation without the complexity entailed in designing and implementing custom solutions.

Solution Benefits

Cisco UCS for Microsoft SharePoint 2010 and Microsoft Windows Server 2008 R2 Hyper-V together help small and medium-sized businesses quickly deploy the tools they need to lower total cost of ownership (TCO), reduce complexity, and improve operation efficiency. Tests validate that the Cisco UCS C240 M3 can run Microsoft SharePoint 2010 Server virtualized to support 20,000 users with 10 percent concurrency and provide high availability and server redundancy.

Easy Scalability

To meet the needs of the ever-growing user base, businesses often plan for growth. This solution's flexible architecture can scale to meet growing demands. The Microsoft SharePoint topology can easily scale out using the Cisco UCS C220 M3 Rack Servers (Figure 2) to meet the vast computing requirements of

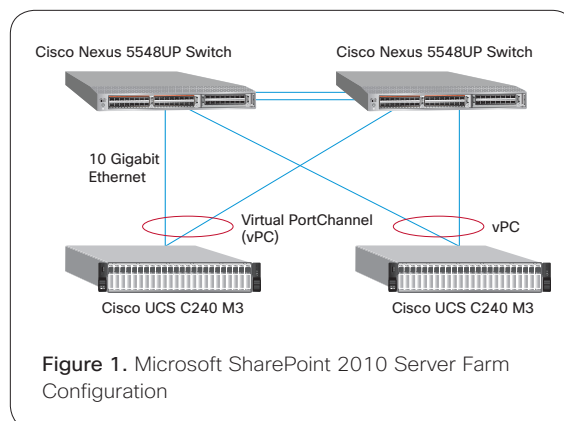


Table 1. The Solution Can Be Ordered with a Single Part Number

Application	Microsoft SharePoint Server and SQL Database Server	Web and Application Front-End Tiers
Computing	2 Cisco UCS C240 M3 Rack Servers, each with: <ul style="list-style-type: none"> • 2 Intel Xeon processors E5-2690 at 2.9 GHz (2 sockets and 16 cores) • 384 GB of memory • Redundant power supplies • Cisco UCS P81E Virtual Interface Card (VIC) 	1 (or more) Cisco UCS C220 M3 Rack Servers, each with: <ul style="list-style-type: none"> • 2 Intel Xeon processors E5-2650 at 2.0 GHz (2 sockets and 16 cores) • 256 GB of memory • Redundant power supplies • Cisco UCS P81E VIC
Networking	10-Gbps unified fabric supported with: <ul style="list-style-type: none"> • 2 Cisco Nexus® 5548UP Switches 	
Storage	24 Small Form-Factor (SFF) SAS hard disk drives, each with: <ul style="list-style-type: none"> • 300-GB 15,000-rpm 2.5-inch SAS • LSI MegaRAID 9266-CV 8i card 	8 SFF SAS hard disk drives, each with: <ul style="list-style-type: none"> • 300-GB 15,000-rpm 2.5-inch SAS • LSI MegaRAID 9266-CV 8i card

the web front-end and application tiers. These tiers do not have large storage requirements; therefore, the Cisco UCS C220 M3 is an excellent fit because of its lower cost and smaller internal storage.

Easy Ordering

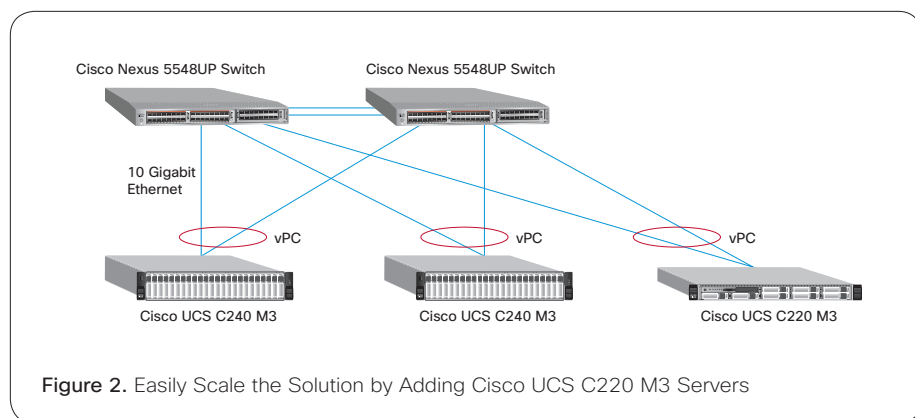
Cisco UCS for Microsoft SharePoint Server with Microsoft Windows Server Hyper-V is available through the Cisco

Smart Play program (Table 1). With only a single part number to order, the program makes it easy to quickly deploy a powerful, secure collaboration environment in your enterprise without the expense or risk entailed in designing and building your own custom solution.

For More Information

For more information about the Cisco Smart Play program, please visit <http://www.cisco.com/go/smartplay>.

For more information about Cisco UCS Microsoft solutions, please visit <http://www.cisco.com/go/Microsoft>.



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