

# Cisco Starter Scale-Out Solution for SAP HANA with EMC Storage

Solution Brief  
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## Highlights

### Get the Lowest-Cost 1-Terabyte (TB) Scale-Out Solution for SAP HANA

- The Cisco Starter Scale-Out Solution for SAP HANA with EMC Storage is priced to make it easy for businesses to get started with their SAP HANA implementations.

### Do More with a Scalable Solution

- The solution easily scales up to 2-TB deployments with two failover blade servers in a compact footprint.

### Accelerate Deployment

- Cisco Unified Computing System™ (Cisco UCS®) with EMC VNX Series storage running SAP HANA software provides scale-out infrastructure with rapid deployment capabilities.

### Deliver Availability and Reliability

- High availability and reliability features deliver continuous application access.

### Use High-Performance Storage

- Next-generation EMC VNX5300 Series storage provides excellent performance, data protection capabilities, and ease of management.

### Save with a Cost-Effective Approach

- Cisco UCS reduces the number of physical components to make more effective use of limited space, power, and cooling resources.

### Excellent Financing

- Cisco Capital® financing lets companies acquire the solution today and pay for it after it is up and running.

You dream about gaining better business insight. We deliver a SAP HANA solution at the right price.

Organizations in every industry continue to look for ways to make real-time business decisions that support a dynamic marketplace. Without scalable infrastructure that can store, process, and analyze big data sets in real time, companies are unable to use information to their best advantage. The Cisco® Starter Scale-Out Solution for SAP HANA with EMC Storage is priced to make it easy to get started on the path to better business decisions that let you stay ahead of the competition.

## SAP HANA: Delivering Instant Insight into Operations

SAP HANA provides a flexible, cost-effective approach for analyzing detailed data in real time—literally at the speed of thought. Efficient processing and analysis of massive amounts of data is made possible by combining SAP's intelligent use of in-memory technology, columnar database design, data compression, and massively parallel processing into an integrated solution. Using the multipurpose SAP HANA database, organizations can gain instant insight into business operations, respond quickly to changing priorities, and dramatically reduce the costs associated with the deployment of multiple data warehouses.

## Cisco: Simplifying Scale-Out SAP HANA Deployments

Designed for smaller enterprises, departments, and trial deployments, the Cisco Starter Scale-Out Solution for SAP HANA with EMC Storage combines the innovative Cisco UCS with EMC® VNX™ series unified storage to deliver scalable infrastructure that works right out of the box. The solution combines Cisco UCS B440 M2 High-Performance Blade Servers with large memory capacity, networking, virtualization, and next-generation EMC VNX5300 Series storage resources into a single unified system. All components are integrated with Cisco UCS 6248UP 48-Port Fabric Interconnects to create a physically distributed, centrally managed system.

## Cisco Starter Scale-Out Solution for SAP HANA with EMC Storage

### Scale to 2-TB Deployments

Using a building-block approach, the Cisco Starter Scale-Out Solution for SAP HANA with EMC Storage enables IT staff to start with the computing and storage infrastructure needed today and scale easily by adding more computing and storage blocks as demand increases. Because the building blocks integrate into the unified system, they do not require additional supporting infrastructure or expert knowledge. The system simply, quickly, and cost-effectively presents more computing power and memory capacity to SAP HANA applications. Solutions can scale from one to four blade servers and from 1 TB to 2 TB of memory.

### Accelerate Deployment

The Cisco Starter Scale-Out Solution for SAP HANA with EMC Storage automates configuration. The solution can be deployed quickly, and configurations can be replicated easily and accurately. Abstracting server identity, personality, and I/O connectivity from the hardware enables SAP HANA server characteristics to be applied automatically as new systems are added to support increased demand. For SAP HANA installations, this capability means greater resource utilization through a reduced need for hot spares. New servers can be deployed, or existing servers upgraded, simply by applying a Cisco service profile to the target resource and rebooting to launch the new server.

### Analyze and Protect Big Data

EMC VNX5300 unified storage systems provide persistent storage for SAP HANA and real-time data consumption for data warehousing. Each EMC VNX5300 device is connected to two Cisco UCS fabric interconnects to provide shared block-level access to SAP HANA data. Designed with simplicity in mind, EMC VNX5300 unified storage systems combine powerful and flexible hardware with advanced efficiency, management, and protection software to meet stringent deployment demands.

### Deliver High Availability

Up to six blade servers are supported in the solution configuration, providing up to four active nodes and two standby nodes for highly available operation. By distributing data processing, the solution can scale beyond a single server and eliminate the server as a single point of failure. Nodes can fail over automatically within a distributed SAP HANA database implementation, with the shared EMC VNX5300 unified storage system used to move in-memory content to the standby node. Log files are applied, if necessary, to help ensure that the system reflects the latest state.

### Built for the Data Center

The Cisco Starter Scale-Out Solution for SAP HANA with EMC Storage integrates smoothly with existing data center infrastructure and best practices.

Therefore, you do not need special IT processes to incorporate the solution into your data center to gain the insight you need into operations.

### Excellent Financing

With Cisco Capital® financing, you can acquire the Cisco Starter Scale-Out Solution for SAP HANA with EMC Storage today and pay for it after it is up and running. Large initial cash investments are not required, and without payments or interest for the first three months you can support your business needs on your own terms and within your own time frame.

### For More Information

For more information about Cisco UCS for SAP HANA deployments, please visit <http://www.cisco.com/go/sap>

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

For more information about Cisco Capital financing, please visit <http://www.ciscocapital.com>.

For more information about EMC VNX Series storage systems, please visit <http://www.emc.com/storage/vnx/vnx-family.htm>.



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