



# Accelerate SAP HANA Deployments and Improve ROI

## With Nimble Storage SmartStack

### Benefits

- Accelerate deployments.
- Reduce risk.
- Improve productivity and return on investment (ROI).
- Flexibly scale to easily manage growth.

With the speed of business accelerating, you need business tools that are even faster to gain competitive advantage. SAP creates extremely powerful tools for increasing business efficiency, including SAP HANA. SAP HANA offers a next-generation, in-memory platform that gives you real-time insights into your business.

The SAP recommended architecture for SAP HANA requires all SAP HANA nodes to be on the same network, together with all the application nodes and storage nodes. SAP HANA requires integrated infrastructure. Nimble Storage SmartStack is integrated infrastructure that combines computing, networking, storage, and management into a single cohesive system. It combines best-in-class components and open, industry-standard x86-architecture Cisco Unified Computing System™ (Cisco UCS®) servers with a unified, wire-once network and Nimble Storage infrastructure.

### Accelerate Deployments

Nimble Storage SmartStack solutions accelerate deployments by providing prescriptive guidelines based on prevalidated reference architectures that have been tested and documented by Cisco and Nimble Storage working together. When you choose this joint solution, you don't need to spend your time and effort selecting, scoping, sizing, configuring, and testing disparate hardware from multiple vendors. End-to-end reference configurations have already been created for the size of SAP landscape deployment you need and can be found at the [Cisco® Build and Price portal](#).

Additionally, Cisco UCS Director is a vital companion to SmartStack, delivering holistic management through centralized automation and orchestration from a single pane. Cisco UCS Director and SmartStack allow you to shift your focus from infrastructure management to delivery of business innovation and insights with SAP HANA. Simplicity in the data center is rare when applications are complex and when you must meet challenging expectations. Cisco UCS Director and SmartStack help enable you to quickly add value to the organization to increase deployment efficiency and better support your business goals.

### Reduce Risk

Based on a prevalidated reference architecture, the SmartStack solution portfolio helps you eliminate the risk associated with custom solutions. This solution has been validated with SAP as a certified SAP HANA

## For More Information

- [Nimble Storage for SAP Applications](#)
- [Cisco SAP S4HANA Reference Configurations](#)
- [Nimble Storage SmartStack](#)
- [Cisco Solutions for SAP HANA](#)

Tailored Datacenter Integration (TDI) configuration. It includes a high-availability failover certified configuration that helps ensure failover to a Cisco UCS standby server with Nimble Storage to meet criteria set by SAP. This prescriptive design for deployments eliminates the guesswork from infrastructure planning, sizing, and provisioning for your SAP HANA environment. All Nimble Storage SmartStack configurations are supported by Cisco Solution Support Service for Critical Infrastructure, helping ensure that you have only one call to make if a problem occurs.

## Improve Productivity and Return on Investment

The entire SAP Landscape consists a variety of workloads, including SAP HANA, online transaction processing (OLTP) and online analytic processing (OLAP). Each of these workloads has different computing, networking, and storage needs. SmartStack, built on Cisco UCS and Nimble Storage, provides a variety of configurations that will meet your SAP Landscape needs today and into the future. Nimble Storage is built on an Adaptive Flash platform. This Adaptive Flash storage platform efficiently delivers higher performance and a much smaller footprint than legacy infrastructure. The Adaptive Flash platform can adapt to a wide range of application profiles, while accommodating changing needs without expensive forklift upgrades. For SAP HANA, the Adaptive Flash Platform can be used for hot, warm, and cold data for persistence; OLTP and OLAP data processed by systems other than SAP HANA; and creation of development and test clones.

## Ease Growth with Flexible Scalability

This solution uses the flexible scalability of Cisco UCS and Nimble Storage arrays to help you adapt to growing needs without downtime. With the scale-to-fit capabilities of Cisco and Nimble Storage technologies, you can independently and nondisruptively increase performance and capacity. With Nimble Storage, you can upgrade controllers, increase cache size, and add capacity as needed. And you can scale Cisco UCS simply by adding blade or rack servers. The system's stateless computing model, implemented with Cisco UCS service profiles, automates and accelerates server provisioning. The system's centralized fabric interconnects establish a scalable I/O architecture that doesn't have to be redesigned as your organization grows. By adopting a modular building-block approach with unified computing, fabric, storage, and virtualization integrated into a single architecture, your organization can scale its deployments as needs change.

## Excellent SAP HANA Solution

With Nimble Storage SmartStack, you can quickly deploy your SAP HANA solution to gain real-time insights into your business. This solution enables your IT staff to deploy, manage, protect, and scale your SAP solution with increased efficiency, accelerating your ROI and enhancing your competitive position in the market.

