Better Performance and High Availability: Cisco and SUSE Help You Do SAP HANA Right


**Solution at a Glance:**
Gain a competitive edge with a highly available, end-to-end, certified implementation of SAP HANA from Cisco and SUSE.

+ Improve SAP HANA performance.
+ Apply critical operating system patches live, with no downtime and reboots.
+ Seamlessly scale up or out as needed.

**Products:**
- SAP HANA
- Cisco Unified Computing System
- SUSE Linux Enterprise Server for SAP Applications
- SUSE Linux Enterprise Live Patching

**Simplify IT Architecture without Sacrificing Speed and Availability**
SAP HANA can be a powerful catalyst to your digital transformation. It speeds up the processing time of huge amounts of data so you can put that data to use immediately. It enables innovative applications that can help you serve customers better, expand your business and take advantage of agile operations. How you implement it can make all the difference.

You have a variety of options for implementing SAP HANA, but none combine flexibility and a simplified implementation like this offering from Cisco and SUSE. Together, Cisco Unified Computing System (UCS) and SUSE® Linux Enterprise Server for SAP Applications form a complete, tested and validated foundation for SAP HANA’s in-memory computing capabilities—a foundation that helps you get more out of SAP HANA as well as your hardware and software investments, and that delivers the reliability, availability and security your business requires.

Add SUSE Linux Enterprise Live Patching to the solution, and you get the ability to perform patching without interrupting your mission-critical workloads and in-memory databases. It delivers the ability to apply security and stability patches to the kernel without the need to reboot. Even when urgent kernel updates are needed, it allows SUSE Linux Enterprise Server to run continuously—with zero execution interruptions, not even a millisecond.

**Cisco and SUSE:**
**Optimized for SAP HANA**
Cisco UCS and SUSE Linux Enterprise Server for SAP Applications make implementation, maintenance and management of SAP HANA seamless and transparent.

Cisco UCS is a data center platform that unites computing, network, storage access and virtualization into a single cohesive system. It provides the hardware and management software to unify your technology stack and helps increase agility by:
Reducing time and effort in configuring and validating the SAP HANA solution, with its prevalidated, ready-to-deploy infrastructure that can speed implementation from months or weeks to just days.

Simplifying scalability and management by supporting a range of deployment options and minimizing latency between SAP HANA nodes.

Streamlining operations by enabling you to run multiple SAP HANA production systems on a shared infrastructure or to run SAP applications and SAP HANA on the same infrastructure.

Reducing downtime with support for multiple SAP HANA workloads with high availability and server redundancy.

SUSE Linux Enterprise Server for SAP Applications is a secure open-source server operating system, built to power physical, virtual and cloud-based mission-critical workloads. As the number-one Linux platform for SAP applications, it helps increase agility by:

- Meeting your varying computing needs with outstanding performance, even under full CPU loads and high memory stress.
- Optimizing SAP HANA performance by continually improving the operating system to accommodate new SAP features and capabilities.
- Helping unlock the intelligence in your data by working with SAP to support deployment of multiple nodes and true big data environments.
- Boosting overall system performance with features such as the page cache limit and tuning options.
- Ensuring business continuity with features such as integrated clustering for physical and virtual Linux systems, automated data recovery for SAP HANA databases and full system rollback to mitigate change errors.
- Delivering high availability with resource agents that continually monitor the SAP HANA system and provide automatic failover operations when needed.
- Providing robust security from years of SAP and SUSE co-development centered on kernel hardening and ready-to-use firewalls.

SUSE Linux Enterprise Live Patching is a simple, subscription-based solution based on an open source technology called kGraft. It builds onto the existing SUSE Linux Enterprise kernel infrastructure and uses familiar deployment methods. It helps increase business agility by:

- Improving service availability with live patching that keeps your systems running smoothly and securely on the front end while critical updates are applied on the back end.
- Reducing planned downtime with unobtrusive kernel patching, so even time-consuming operations can run to completion without being interrupted by urgent updates.
- Maintaining security and stability by making it simple to update the kernel at any time and reduce vulnerabilities.

Both Cisco and SUSE have been recognized by SAP as valuable partners. Cisco is the only SAP partner offering policy-based solutions for SAP HANA. SUSE Linux Enterprise Server for SAP Applications is the only operating system with features...
specifically optimized to improve performance of SAP HANA in-memory processing for big data on UCS. And even SAP uses the SUSE operating system for its production and development environment.

Choosing solutions from SAP partners guarantees robustness and ensures smooth SAP HANA integration because there will have been the highest level of scrutiny on patches and fixes, reducing the possibility of incompatibilities when patches are applied.

Conclusion
If you want to minimize latency for SAP HANA, improve performance and seamlessly scale up or out as needed, combine the power and simplicity of Cisco UCS with a reliable, end-to-end, certified implementation on SUSE Linux Enterprise Server for SAP Applications.

Choose Cisco and SUSE for a tested, configured SAP HANA deployment that will get you up and running fast.

- High availability with automated failover
- Live kernel patching for security and stability without interrupting the front end
- Fast, easy implementation
- Easy support and management
- Convenient, flexible update cycle
- Operating system security hardening

Learn More
Learn more about how SUSE and Cisco can simplify your SAP HANA deployment and operations at: www.suse.com/cisco
Learn More
To learn more about how SUSE and Cisco can simplify your SAP HANA deployment and operations, please visit: www.suse.com/cisco

Contact your local SUSE Solutions Provider, or call SUSE at:

1 800 796 3700 U.S./Canada
1 801 861 4500 Worldwide

SUSE
1800 S. Novell Place
Provo, UT 84606

SUSE
Maxfeldstrasse 5
90409 Nuremberg
Germany