



Hybrid Cloud Agility, On-Premises Control with SUSE and Nutanix

Run your entire mission-critical landscape better on a single platform

SUSE and Nutanix at a Glance:

- **Get mission-critical uptime and reliability** with operating system live patching, nondisruptive compute and storage scaling, and proven 99.999% availability.
 - **Improve agility and control** with a hyperconverged private cloud approach with public-cloud-like flexibility and speed on a single hybrid-ready platform.
 - **Achieve faster time to value** by deploying and scaling apps faster, reducing operating costs and eliminating the challenges of managing infrastructure silos.
 - **Simplify infrastructure management** with a single pane of glass, one-click upgrades and machine learning for automated resource optimization.
- Product:
- + SUSE Linux Enterprise Server
 - + SUSE Linux Enterprise Live Patching
 - + SUSE Manager
 - + Nutanix enterprise cloud software Built on Hyperconverged Infrastructure (HCI)

Take a Hybrid Approach to Evolving Business Needs

Organizations today face a daunting challenge. They must quickly modernize legacy IT infrastructure to adapt to the ever-changing demands of customers and the marketplace. Yesterday's three-tier server-SAN architecture can no longer deliver the agility and scalability required to compete—yet a public cloud-only approach comes with its own challenges, such as migration difficulties and costs that can skyrocket as your business grows.

That's why most organizations are adopting a hybrid IT approach, which means they have on-premises, hosted and cloud capabilities to best suit their unique workloads and budgets. To ensure that this approach doesn't result in the familiar legacy problem of infrastructure silos, hyperconverged

infrastructure (HCI)-based solutions can be used to provide a common platform across clouds. HCI is the combination of common data center server and networking hardware connected in a cluster and presenting the internal storage (disk and flash) and compute resources as a common pool across workloads. It uses smart software for easy, comprehensive systems and operations management. HCI-based solutions integrate the entire infrastructure; layer on additional integrated services such as security, automation, self-service and disaster recovery; and bridge the gap between traditional data center infrastructure and the public cloud.

SUSE and Nutanix can help you realize the full benefits of hybrid, or multimodal, IT. Together, they offer an HCI-based solution that delivers hybrid and public cloud agility

SUSE and Nutanix can help you realize the full benefits of hybrid IT. Together, we offer an HCI-based solution that delivers cloud-like agility with on-premises control for all your mission-critical applications, with high availability, simplified management and faster time to value.

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Working Together to Keep You Competitive

SUSE-Nutanix solutions for mission-critical applications include SUSE® Linux Enterprise Server, SUSE Linux Enterprise Live Patching and SUSE Manager, all running on a Nutanix enterprise cloud software built on HCI. With these components, you can run your entire mission-critical landscape, from applications to storage to database, on a single platform, with one operating system and one infrastructure approach. SUSE-Nutanix solutions allows users to consolidate multiple workloads onto a single, dense platform, using up to 80% less space and resulting in 62% lower total cost of ownership (TCO).

With SUSE and Nutanix, you can deploy infrastructure 10 times faster with up to 82% less staff time required. The SUSE YaST® installer and simple Nutanix software let you deploy applications and all the pieces they rely on in far less time, too.

Live patching and one-click infrastructure upgrades help minimize downtime and make life easier for IT. In fact, SUSE and Nutanix can help you slash unplanned downtime by 85%, back up 72% more frequently, facilitate disaster recovery and ensure security.

The combined solution also uses intelligent automation to streamline management across the entire solution, from the OS to each piece of the infrastructure. Manage everything from a single interface with 58% greater efficiency, while reducing the need for IT support up to 91%.

With the HCI-based solution from SUSE and Nutanix, you get the peace of mind that easily managed reliability and high

availability can bring—for all of your mission-critical applications, including SAP solutions, databases your enterprise relies on, VDI, analytics, sensitive systems that can't go down, and more.

A Closer Look at the Components

SUSE LINUX ENTERPRISE SERVER

SUSE Linux Enterprise Server is a modern, modular OS that can help simplify multimodal IT and make traditional IT infrastructure efficient. As a result, you can easily deploy and transition business-critical workloads across on-premises and public cloud environments.

The SUSE Linux Enterprise common code base helps break the silos of IT while bridging traditional and software-defined infrastructure. This enables easy migration of application workloads, improves systems management and eases the adoption of containers. And with SUSE Linux Enterprise Server with Expanded Support, you can save up to 50% on all your enterprise Linux subscriptions. It enables you to update, patch and support other major Linux operating systems under a single contract.

SUSE operates nine support centers worldwide with hundreds of Linux engineers who are trained in supporting mixed IT environments and are available 24 hours a day, 365 days a year. Our mission-critical expertise is highlighted by our performance in the realm of SAP applications. In fact, SUSE is such a trusted platform for SAP that SAP's own applications—both internally and externally—are built on SUSE software.

Other features and benefits include:

- Modular+ architecture, which helps you to easily deploy and transition business-critical workloads across environments

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- Enterprise remote encryption and kernel hardening, to help provide secure data transfers
- Full system rollback, which allows you to take snapshots of the system, including the kernel files, for greater resiliency

SUSE LINUX ENTERPRISE LIVE PATCHING

SUSE Linux Enterprise Live Patching enables you to apply critical updates to your Linux kernel without rebooting your system.

- Nondisruptive upgrades keep mission-critical applications, such as SAP HANA, running while you update your OS.
- Improve security and compliance by ensuring that systems stay up to date with security patches.

SUSE MANAGER

SUSE Manager is a best-in-class open source infrastructure management solution for your software-defined infrastructure. It offers:

- Automated deployment of operating system templates
- Automated patch management for hundreds of instances
- Detailed compliance auditing across multiple Linux platforms
- Ease-of-use management with graphical visualizations

NUTANIX ENTERPRISE CLOUD SOFTWARE

Nutanix enterprise cloud software forms a highly resilient, hyperconverged infrastructure platform that brings the benefits of web-scale infrastructure to mission-critical applications from SAP, Microsoft, Oracle, Splunk and others. Nutanix delivers the performance, simplified management, scalability, flexibility and availability that both end users and IT depend on.

Nutanix enterprise cloud software combine the core HCI product families—Nutanix Acropolis (AOS), Nutanix AHV hypervisor, and Nutanix Prism management—along with other software products that automate, secure, provide cost governance and back up highly efficient infrastructure. Features include:

- Machine learning to automatically plan for and adapt to changing conditions
- Nondisruptive upgrades and scalability, including one-click node addition with no system downtime
- Data locality for low-latency storage access to any part of an application
- Simplified storage management that eliminates complicated configurations; manual provisioning; and mapping with disks, RAIDs, and logical unit numbers (LUNs)
- Mission-critical availability with a self-healing foundation and virtual machine (VM)-centric data protection, including support for the top enterprise backup solutions
- API-based automation and rich analytics
- Flexible software-defined networking for visualization, automation and security
- Rapid one-click cloning of VMs without the wasted storage capacity that copying requires
- One-click operations, powerful capacity planning and insights, and automated processes that free time to focus on innovation rather than operations
- Consolidate file, block and object storage on a single platform

Increase Your Potential for Success with SUSE and Nutanix

As industry leaders in mission-critical computing for enterprises, SUSE and Nutanix can help you achieve your most daring business goals. Our combined solution gives you the best of both worlds—the agility of the cloud and the control of your on-premises data center—for greater uptime and reliability, simplified management, and the fastest time to value.

Manage everything from a single interface with 58 percent greater efficiency, while reducing the need for IT support up to 91 percent.

Reference

<https://www.nutanix.com/viewer?type=pdf&lpurl=/go/nutanix-enterprise-cloud-tco-roi&fromCampaign=true>