

Nutanix and Cisco: An Open, AI-Ready Foundation

A high-density hybrid multicloud platform powered by AMD EPYC™, built on Cisco UCS®.

IT leaders face strict datacenter power limits, rising core-based software licensing costs, and mounting pressure to operationalize agentic AI on sensitive corporate data. Nutanix and Cisco answer with an open, high-density hybrid multicloud foundation powered by AMD. The Nutanix Cloud Platform runs on 5th Gen AMD EPYC™ processors across Cisco Compute HCI on Cisco UCS (Unified Computing System™), bringing together compute, high-performance AI networking, and lifecycle management through Cisco Intersight® and Nutanix Prism. Together they consolidate aging server estates, reclaim trapped power and floor space, and lower total cost of ownership, giving enterprises a secure, standards-based path to deploy autonomous AI agents without vendor lock-in.

Key Benefits

- **Consolidate up to 8:1**, from 1,000 x86 servers to 127 2P AMD EPYC™ 9965 nodes,¹ cutting TCO up to 79%.²
- Reclaim trapped power and floor space with up to **66% better energy efficiency per watt**.³
- Unify compute, networking, and HCI under a single management plane spanning Cisco Intersight and Nutanix Prism.
- Protect sensitive AI workloads with silicon-level confidential computing using AMD Infinity Guard and SEV-SNP.
- Avoid lock-in with an open foundation built on AMD ROCm™ and Nutanix Kubernetes Platform.

Break Through Capacity Walls with AMD Density

The shift away from legacy virtualization, accelerated by recent licensing changes, has enterprises seeking an exit from the virtualization tax and the rigidity of locked-in hypervisors. Nutanix and Cisco provide a clear, low-risk path. Nutanix Move migrates critical workloads from legacy platforms with minimal downtime and no application refactoring, preserving license portability and long-term cost predictability.

Underneath, AMD EPYC™ processors deliver industry-leading core density, while the Nutanix Cloud Platform runs high-density HCI or compute clusters on validated Cisco Compute HCI nodes built on Cisco UCS.

Organizations replace multiple racks of aging hardware with a tight cluster of single- or dual-socket AMD EPYC™ servers, achieving aggressive consolidation ratios. Because EPYC™ delivers up to 66% better energy efficiency than older x86 systems, that consolidation reclaims trapped power and cooling capacity and lowers Power Usage Effectiveness.

Maximizing performance-per-core also shrinks the socket and core footprint that drives enterprise software licensing for databases such as SQL, Oracle, and SAP. The reclaimed capital, floor space, and power can then fund the next phase of enterprise AI.

Secure and Scale with End-to-End Resilience

Beyond consolidation, Nutanix and Cisco deliver an end-to-end platform built for agility and resilience. Cisco server infrastructure, networking, and security combine with the Nutanix Cloud Platform to create a streamlined, resilient environment that simplifies IT management and strengthens data protection across the stack.

The platform is built for cloud-native applications that are inherently scalable, resilient, and easy to manage. Teams deploy and operate containerized workloads on Nutanix Kubernetes Platform alongside virtual machines, with a consistent operating model from core

to edge. Native data services, including snapshots, replication, and self-healing from drive and node failures, help ensure business continuity without bolt-on tooling.

Cisco networking and integrated security extend that resilience across the fabric, and a single management plane keeps day-two operations simple. The result is a secure, future-ready foundation that lets enterprises scale with confidence, deliver consistent customer experiences, and adapt as requirements change, all on infrastructure powered by AMD EPYC™.

Operationalize Secure, Open Agentic AI

Moving from simple chatbots to agentic AI means autonomous systems that reason across multiple steps, retrieve sensitive data, and execute workflows on their own. That demands constant access to protected memory, and proprietary AI stacks tend to inflate cost, create governance gaps, and lock customers in.

Nutanix and Cisco take a different approach. The 12-channel memory bandwidth of AMD EPYC™ processors runs fast local inference and data preprocessing on the CPU, letting teams begin agentic work before committing to dedicated GPUs, then scale to accelerators as demand grows.

Data sovereignty holds throughout: the Nutanix AI Gateway governs multi-agent workflows while AMD SEV-SNP encrypts and isolates individual VMs and AI threads at the silicon level.

Standardizing on the open AMD ROCm™ ecosystem and Nutanix Kubernetes Platform keeps the environment free of proprietary lock-in. For larger AI clusters, Cisco Intersight with Nutanix Prism keeps the full stack observable and under unified control.

One Foundation for Modernization and AI

Nutanix, Cisco, and AMD give enterprises one foundation to modernize virtualization, consolidate infrastructure, and operationalize secure AI, all without lock-in. Reclaim your power, your budget, and your AI runway. Talk with your Nutanix or Cisco team to scope a deployment.