NUTANIX

Solution Brief

Full Stack, Fully Validated, Ready to Power Your Hybrid Multicloud

Nutanix Cloud Platform®, Cisco UCS®, and Intel® Xeon® 6 Processors work together for a complete Enterprise Cloud Platform

Application growth, data sprawl, and the rise of AI are driving greater demands on IT environments than ever before, even as they face pressure to become more distributed, scalable, and adaptable. To keep up, enterprises need an operating model that is straightforward to run, consistent across locations, and resilient for business-critical workloads.

Nutanix, Cisco, and Intel deliver that model in a fully validated stack. Nutanix provides the hybrid multicloud software foundation, Cisco UCS® brings proven enterprise infrastructure, and Intel® Xeon® 6 processors supply the latest compute innovation. The result: **a complete solution designed to simplify operations while meeting the demands of AI, analytics, and cloud-native applications alike.**

Aligned for Today's Workloads Across Every Layer

Each layer of the solution is tuned for the realities of today's enterprise IT needs: hybrid operations that span edge and cloud, built-in AI acceleration, and unified infrastructure management. **Together, they form a solution built to scale modern workloads without layering unnecessary complexity.**

Nutanix Cloud Platform streamlines operations with a unified hybrid cloud solution that enables consistent management and seamless workload mobility across edge, cloud, and core datacenters.

Cisco UCS (Unified Computing System) is an integrated data center infrastructure platform that combines computing, networking, storage access, and virtualization into a cohesive system. It both simplifies management of infrastructure by centralizing control and reduces complexity by unifying traffic over a single network fabric.

Intel Xeon 6 offers performance-core CPUs with up to 86 cores per socket, high-speed DDR5 memory, PCIe Gen 5 support, and Intel AMX® for AI acceleration, delivering the compute capabilities needed to efficiently power modern workloads and enable server consolidation.

This integrated design provides a ready-to-run foundation that optimizes deployment times, simplifies management, and keeps operations consistent, even when workloads evolve fast.

A Unified Solution Powered by the Latest Processor Innovation

Cisco Intersight and the Nutanix Prism control plane work together to enable zero-touch deployments and operations from the data center to the edge, including foundational integrations that provide a more unified experience and greater visibility.

The joint solution is available in multiple configurations, allowing enterprises to match infrastructure to their workload profiles while staying on a common, validated stack.

Cisco UCS C220 M8

A 1RU, dual-socket platform engineered for organizations prioritizing high-density rack-mount deployments. A compact, flexible system ideal for general-purpose enterprise workloads, this configuration offers up to 4 TB of DDR5 memory to deliver efficient performance in a reduced footprint.

Cisco UCS C240 M8

A 2RU, dual-socket platform built for organizations requiring extensive I/O flexibility and expanded storage capacity in a rack-mount form factor. The platform supports memory to 8 TB, double-wide and multi-GPU configurations, and storage up to 24 drives per node.

Cisco UCS X-Series Modular System and Cisco UCS X210c M8 Compute Node

The Cisco UCS X210c M8 Compute Node is a dual-socket server. Available as an All-NVMe hyperconverged configuration, it provides robust performance, adaptability, and efficiency for data center, cloud, and remote site deployments.

The systems support two primary deployment configurations:

Leveraging Existing Top-of-Rack Switches:
Nodes connect through top-of-rack switches and are centrally managed with Cisco Intersight. Standard Nutanix clusters require three nodes, with one- and two-node options for edge or branch locations with existing high-performance networks.

Integrated with Cisco Fabric Interconnects:
Nodes connect through Cisco UCS 6400 series Fabric Interconnect or Cisco UCS 6500 Series Fabric Interconnects or the new Cisco UCS 6664 Fabric Interconnect and are managed as a single system using Cisco Intersight. Clusters can scale from a single node for non-production to 32 nodes for high-performance, mission-critical environments. This configuration provides the scalability, integration capabilities, and fault tolerance required for large enterprise data center environments.

Together, Nutanix, Cisco, and Intel Xeon 6 deliver an AI-ready solution that's alidated for performance, simplicity, and scale. Visit: www.nutanix.com/ucs | www.nutanix.com/intel

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