# A Smarter, Simpler Path to Hybrid Cloud and AI

Nutanix, HPE®, and Intel® deliver a validated platform for secure, scalable, AI-ready infrastructure.

Organizations are grappling with challenges like explosive data growth, the proliferation of artificial intelligence (AI) workloads, and a pressing need to support numerous applications across diverse environments. Addressing these demands requires modern infrastructure that is flexible, secure, and performance-optimized.

Nutanix, HPE, and Intel have partnered to deliver a validated, full-stack hybrid cloud platform that meets these needs head-on. This solution brief explains how this joint solution addresses key challenges for hybrid multicloud infrastructure in real-life use cases, all while providing powerful features to streamline IT management.

## Secure Next-Generation Infrastructure

The latest joint solutions from Nutanix, HPE, and Intel are delivered on the new HPE ProLiant Compute Gen12 servers, designed and factory-integrated with Nutanix environments.

- HPE ProLiant Compute Gen12 run Intel Xeon 6 processors, available with up to 86 cores per socket in one- and two-socket designs

- Support for up to 8-channel DDR5 memory running at 6400 MT/s

- Support for both U.3 and EDSFF NVMe storage

HPE ProLiant Compute Gen12 configurations are designed to scale intelligently to fit specific workload needs. With more than 15 validated models available in the HPE DX/DL appliance family, organizations can right-size deployments across ROBO, edge, and core datacenter environments. This flexibility helps align optimal resources without unnecessary overprovisioning to promote efficiency, manage power consumption, and control operating costs.

Across these configurations, organizations can support a wide variety of production workloads with a single, unified infrastructure stack. From traditional virtualized applications and databases to new cloud-native services and emerging AI models, the platform provides a consistent operational experience that simplifies IT management and accelerates deployment.

## Key Features and Benefits

**With full-stack solutions powered by Nutanix hybrid multicloud software, running on HPE® ProLiant® Compute for Nutanix, and built on Intel® Xeon® 6 processors, organizations gain a platform that is purpose-built for today's challenges.**

- **Powerful Compute for Modern Workloads:** HPE ProLiant Compute Gen12 servers bring secure, enterprise-grade compute infrastructure engineered for Nutanix deployments. These systems feature Intel Xeon 6 processors with Intel Advanced Matrix Extensions (AMX) for AI acceleration. This combination delivers the compute power needed for demanding workloads such as AI, analytics, and data processing.

- **Operational Simplicity Through Integrated Management Tools:** HPE iLO 7 provides advanced telemetry and lifecycle management capabilities. Nutanix Prism offers one-click upgrades and Nutanix-qualified firmware updates, streamlining infrastructure management for distributed IT teams managing systems across datacenter, cloud, and edge environments

- **Security embedded throughout the stack:** iLo 7 includes Silicon Root of Trust 2.0 for hardware-level security, coupled with network-layer protection from Nutanix Flow Network Security. Organizations gain fine-grained control and visibility to protect workloads across hybrid environments at every layer.

- **Planning and Simplified Setup:** Factory-installed software and Nutanix-optimized settings streamline deployment time, helping IT teams move quickly from planning to production, with the ability to stand up a new hybrid multicloud deployment in hours.

To support evolving business needs, the solution is available through HPE GreenLake, offering flexible, consumption-based pricing models that align infrastructure investments with usage.

## Engineered for AI

The Nutanix Kubernetes Platform (NKP) and Nutanix Enterprise AI (NAI) solutions leverage the on-processor AI acceleration provided by Intel AMX to provide built-in capabilities for deploying and running AI workloads.

- NKP provides the foundational infrastructure layer for secure, multi-tenant resource access, allowing you to manage and deploy AI workloads on production-ready Kubernetes.
- NAI builds on that foundation to deliver higher-level services, including model and AI endpoint deployments, supported with a simple interface and enterprise-level security that is cost-predictable.

Together, they give enterprises a simplified, validated path to operationalizing AI across hybrid environments.

## A Validated Full-Stack Solution for A Broad Range of Workloads

The Nutanix and HPE solution, powered by Intel, provides a clear path to modernizing infrastructure and supporting data-intensive, AI-driven workloads, whether running financial models, training enterprise AI systems, or accelerating data pipelines in production environments.

Visit www.nutanix.com/hpe and www.nutanix.com/intel

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