

TOP

5

Enterprise Features

of Nutanix AHV Hypervisor

01

Intelligent Resource & GPU Scheduling (ADS)

Nutanix ADS actively manages workloads and resolves bottlenecks. Topology-Aware and Depth-First Scheduling (DFS) helps reduce memory fragmentation, tightly packing workloads for high [NVIDIA Blackwell GPU](#) utilization and optimal AI performance.

02

Seamless VM Migrations & Conversions

Accelerate your move to [Nutanix AHV](#) with [Nutanix Move](#). Experience low downtime, safe test migrations, and revolutionary In-Place Cluster Conversions that transition VMware by Broadcom ESXi environments directly to AHV without the need for additional swing kit hardware.

03

High-Performance AI Compute

Power your most demanding AI factories with near-bare-metal speeds. AHV enables 8-GPU passthrough for massive LLM workloads, automatically applies AI-optimized VM profiles, and delivers lightning-fast vGPU startup to support dynamic generative AI applications.

04

Advanced Software-Defined Networking

[Nutanix Flow](#) helps maximize throughput and minimize latency for intense AI workloads. It offers GPU Direct RDMA, intelligent traffic segmentation, and network infrastructure offload via BlueField-3 DPUs designed to provide consistent, secure performance without taxing host CPUs.

05

Resilient High Availability & Security

Promotes uninterrupted operations with automated VM recovery and seamless, near zero-downtime GPU lifecycle management. AHV fortifies your infrastructure with one-click STIG applications, network microsegmentation, and support for FIPS compliance, which helps support sovereign AI security standards.