



# Empower your enterprise with next-gen compute and virtualization solutions

HPE ProLiant Compute Gen12 and HPE Morpheus VM Essentials Software

## At a glance

Together, HPE ProLiant Compute and HPE Morpheus VM Essentials Software deliver measurable business outcomes while supporting sustainability and operational excellence. The integrated virtualization solution enables IT leaders to consolidate infrastructure, simplify VDI deployments, and take control of their virtual environments with confidence. With up to 90% cost savings on virtualization licensing,<sup>1</sup> 65% power savings,<sup>1</sup> and world-record performance together,<sup>2</sup> HPE ProLiant Compute and HPE Morpheus VM Essentials Software deliver measurable business outcomes while supporting sustainability and operational excellence.

## Introduction

Enterprise IT leaders today face a convergence of challenges that demand urgent modernization. The rising complexity of hybrid environments, the cost pressures of legacy infrastructure, and the strategic imperative to deploy AI- and data-intensive workloads are forcing organizations to rethink how they manage compute and virtualization. Security threats — both digital and physical — continue to escalate while operational inefficiencies and lack of visibility hinder agility and innovation. At the same time, sustainability goals and energy constraints are reshaping infrastructure priorities.

In response to evolving enterprise demands, organizations are prioritizing platforms that deliver secure, scalable, and intelligent infrastructure. The focus is on solutions that not only safeguard data and ensure compliance but also drive performance, reduce operational costs, and simplify management across increasingly complex environments. As virtualization strategies are reevaluated, there is growing urgency to reduce vendor lock-in and gain flexibility in deploying workloads across private and public clouds.

## HPE ProLiant Compute Gen12 and HPE Morpheus VM Essentials Software

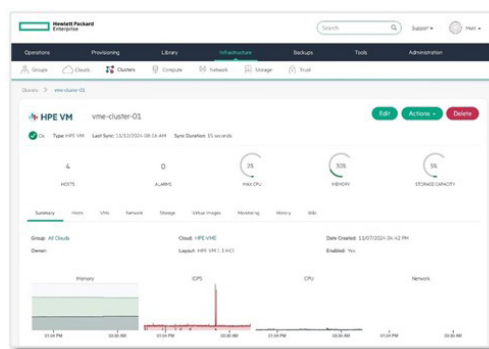


Figure 1. HPE Morpheus VM Essentials Software dashboard

<sup>1</sup> 90% cost savings is a comparison of HPE Morpheus VM Essentials Software versus VMware vSphere® Foundation. Savings do not include discounts and subject to change without notice. Power savings based on the thermal design power of the systems of Gen12 versus Gen10

<sup>2</sup> "HPE ProLiant Compute Gen12 achieves multiple world records in AI inference benchmarks," Hewlett Packard Enterprise, 2025

HPE ProLiant Compute Gen12 and HPE Morpheus VM Essentials Software together form a powerful foundation for the modern enterprise. Gen12 servers deliver next-level security with HPE iLO 7 and secure enclave technology, optimized performance with AI-ready platforms and direct liquid cooling, and automated productivity through predictive insights and unified management. VM Essentials complements this by enabling seamless virtualization across VMware ESXi™ and HVM hypervisors, empowering enterprises to replatform at their own pace while reducing complexity and cost.

## Next-level security, performance, efficiency, and automation

HPE ProLiant Compute Gen12 represents a transformative leap in enterprise infrastructure, engineered to meet the demands of modern workloads across AI, data, VDI, and virtualization. With increasing pressure to deploy intelligent applications and optimize resource utilization, Gen12 delivers a secure, high performance, and energy-efficient foundation for hybrid cloud environments. It is purpose-built to help organizations consolidate legacy infrastructure, reduce operational costs, and accelerate innovation.

The Gen12 portfolio introduces industry-first security features, AI-optimized server platforms, and intelligent automation capabilities. From silicon-level protection to predictive insights and sustainability reporting, HPE ProLiant Compute Gen12 empowers IT leaders to modernize with confidence. Whether refreshing virtualization platforms or scaling AI workloads, Gen12 is designed to deliver measurable business outcomes while supporting long-term IT sustainability.

### Next-level security

Modern enterprises face relentless threats—from sophisticated cyberattacks to physical tampering across distributed environments. Security must be embedded at every layer of infrastructure, not bolted on as an afterthought. HPE ProLiant Compute Gen12 servers are engineered with a zero trust mindset, delivering protection from manufacturing to decommissioning.

- **Silicon root of trust with HPE iLO 7:** Offers secure firmware validation and compliance readiness for quantum computing threats.

<sup>3</sup> From HPE Gen12 launch, as of January 27, 2025

<sup>4,5</sup> SPEC and the names SPECrate are registered trademarks of the Standard Performance Evaluation Corporation (SPEC). The stated results [SPECrate2017\_int\_base: #36693, #36691, #20893, #37007] are published as of 01-01-2025, see spec.org, and compared against a 48-core estimated Gen12 system. All rights reserved. Power savings based on the thermal design power of the systems.

- **Secure enclave:** A hardware-based vault for encryption keys, enhancing tamper resistance and mitigating vulnerabilities tied to external storage.
- **FIPS 140-3 Level 3 and CNSA 2.0:** First industry-standard servers to meet requirements for these advanced cryptographic and quantum resistance standards.<sup>3</sup>

HPE ProLiant Compute Gen12 helps reduce risk exposure, protect sensitive data, and meet stringent compliance requirements—making it ideal for organizations operating in regulated industries or managing mission-critical workloads.

### Performance and efficiency without compromise

As enterprises scale AI, VDI, and edge workloads, they need infrastructure that delivers high performance without inflating energy costs or data center footprint. Gen12 servers are optimized to do more with less—delivering breakthrough performance and sustainability.

- **Up to 41% better performance per watt:** Compared to Gen10 systems, enabling more compute with lower energy consumption<sup>4</sup>
- **7:1 server consolidation and 65% power savings:** Free up data center capacity and reduce operational costs<sup>5</sup>
- **AI-optimized platforms:** HPE ProLiant Compute DL380a Gen12 with NVIDIA® RTX PRO 6000 Blackwell Server Edition and H200 NVL and HPE ProLiant Compute DL384 Gen12 with GH200 NVL2, 144 GB—purpose-built for generative AI and inference workloads

HPE ProLiant Compute Gen12 enables enterprises to modernize and streamline infrastructure with fewer, more powerful servers to transform data center economics—lowering TCO, accelerating AI adoption, and supporting sustainability goals—without sacrificing performance.

### AI-driven productivity

Managing distributed infrastructure across hybrid environments is complex and resource intensive. HPE Compute Ops Management simplifies operations with built-in intelligence, automation, and unified visibility—empowering IT teams to act faster and smarter.

- **Predictive AI insights:** Forecast energy costs and carbon emissions with confidence.
- **Global map-based visibility:** Unified dashboard with color-coded health status across all servers.

HPE Compute Ops Management helps IT teams reduce downtime, improve responsiveness, and streamline operations—freeing up resources to focus on innovation and strategic initiatives.

## Virtualization simplified and future-proofed

As enterprises grapple with rising costs, vendor lock-in, and growing uncertainty around the future of VMware®, many are actively seeking a more flexible and cost-effective path forward. HPE Morpheus VM Essentials Software provides a unified virtualization platform that simplifies management across both VMware ESXi and HVM (KVM-based) environments—empowering IT teams to reduce complexity, regain control, and optimize spend. It enables organizations to modernize their virtualization strategy at their own pace—without disruption or compromise.

HPE Morpheus VM Essentials Software provides a single intuitive interface for provisioning and managing virtual machines (VMs) across hypervisors. Whether deployed as stand-alone software or integrated into HPE Private Cloud Business Edition, it delivers enterprise-grade capabilities and a cost-effective migration path for organizations ready to break free from legacy constraints.

## Unified management across hypervisors

Managing virtualization across multiple platforms is increasingly complex and costly. HPE Morpheus VM Essentials Software simplifies this by providing a single interface to manage both VMware ESXi and HVM (KVM-based) environments. IT teams can provision, monitor, and migrate workloads seamlessly—maintaining flexibility while reducing operational overhead and vendor lock-in.

- Dual hypervisor control: Manage VMware and HVM environments from a single interface, enabling seamless workload placement and provisioning, allowing you to migrate at your own pace
- Enterprise-grade cluster features: Includes high availability, live migration, distributed workload placement, integrated data protection, secure hardening, and external storage support
- The integrated bulk migration feature streamlines the transition from VMware VMs to HPE virtual machine (HVM) clusters

### Business benefit

This unified approach reduces operational complexity and empowers IT teams to manage diverse environments with ease—supporting agility and long-term infrastructure flexibility.

### Low-cost, rich features and simple licensing

Modern enterprises are under increasing pressure to reduce IT spend while maintaining flexibility and performance across their virtualization environments. Traditional licensing models—especially those tied to core-based pricing and vendor lock-in—can significantly inflate costs and limit strategic agility. HPE Morpheus VM Essentials Software offers a smarter alternative, empowering organizations to manage existing VMware clusters without additional licensing fees, adopt a transparent socket-based pricing model, and replatform workloads to HVM at their own pace.

- No additional licensing for VMware management: VM Essentials supports existing VMware clusters without extra cost, offering a unified VM vending experience.
- Socket-based licensing model: Competitive pricing on a per-CPU socket basis, avoiding the overhead of traditional core-based licensing.
- Migration flexibility: Organizations can replatform workloads with HVM at their own pace, reducing disruption and boosting ROI.

### Business benefit

This approach not only simplifies operations but also unlocks substantial cost savings, enabling IT leaders to redirect budget toward innovation and growth. VM Essentials helps enterprises reduce virtualization costs by up to 90% with socket based licensing compared to traditional VMware core based licensing models—freeing up budget for innovation and growth.

### Cloud-ready and extensible architecture

As enterprises evolve toward hybrid and cloud-native operating models, the ability to extend and integrate virtualization platforms becomes essential. HPE Morpheus VM Essentials Software is designed with cloud-readiness at its core, offering seamless integration with the broader HPE Private Cloud portfolio and support for a variety of common workloads. Whether deployed as part of HPE Private Cloud Business Edition or HPE Private Cloud Enterprise, VM Essentials provides a scalable foundation that grows with your business. With an upgrade path to the full HPE Morpheus Enterprise Software, organizations can utilize advanced automation, Kubernetes support, and public cloud workload orchestration—without rearchitecting their infrastructure.

- Integration with HPE Private Cloud portfolio: Available as part of HPE Private Cloud Business Edition and HPE Private Cloud Enterprise
- Extensible ecosystem: Supports third-party integrations with backup providers like Cohesity, Commvault, and Veeam
- Upgrade path to full HPE Morpheus Enterprise Software: Adds support for Kubernetes, public cloud workloads, and advanced automation features
- **Training and enablement:** Equip IT teams with the skills and knowledge to manage new platforms effectively through hands-on training and certification programs
- **Cybersecurity:** Identify your current state of security and make plans on protecting your digital assets with HPE's security, risk, and compliance services.
- **Product and environment support:** Spend less time managing your day-to-day IT operations and free up your teams to focus on key business deliverables.

## Business benefit

VM Essentials provides a scalable foundation for hybrid cloud transformation—enabling enterprises to evolve from traditional virtualization to cloud-native operations without rearchitecting their infrastructure.

## Expert guidance and end-to-end support from HPE Services

Modernizing infrastructure and virtualization environments can be complex—especially when navigating hybrid cloud adoption, workload migration, and cost optimization. HPE Services are designed to help enterprises accelerate transformation with confidence, offering deep expertise, proven methodologies, and tailored support across every stage of the journey.

Whether deploying HPE ProLiant Compute Gen12 servers, implementing HPE Morpheus VM Essentials Software, or integrating with HPE Private Cloud solutions, HPE Services provides strategic and technical assistance to ensure success. From initial planning and architecture design to deployment, optimization, and ongoing management, customers benefit from a trusted partner that understands their business goals and IT landscape.

- **Advisory and transformation services:** Align infrastructure strategy with business outcomes, including hybrid cloud readiness, AI workload enablement, and sustainability planning.
- **Deployment and integration support:** Accelerate time to value with expert-led installation, configuration, and integration of HPE hardware and software platforms
- **Migration services:** Simplify transitions from legacy systems or VMware environments to HPE Morpheus VM Essentials Software and HVM hypervisor with minimal disruption

- **Lifecycle management:** Help ensure long-term success with proactive monitoring, performance tuning, and support services tailored to enterprise needs

With HPE Services, customers gain a strategic partner to guide their modernization efforts, reduce risk, and boost ROI—freeing up internal resources to focus on innovation and growth.

## Flexible financing with HPE Financial Services

To help customers modernize without compromising budgets, HPE Financial Services offers flexible financing and asset lifecycle solutions. Organizations can acquire the latest technology through customized payment plans, trade-in programs, and circular economy initiatives that reduce waste and extend value. This enables IT leaders to align investments with business priorities, preserve capital, and accelerate innovation.

## Modernize your virtualization environment with HPE ProLiant Compute Gen12 and HPE Morpheus VM Essentials Software—deliver performance, flexibility, and cost savings.

HPE ProLiant Compute Gen12 and HPE Morpheus VM Essentials Software together deliver a powerful, future-ready foundation for enterprise IT. From secure, high performance compute to flexible, cost-optimized virtualization, this integrated solution empowers organizations to modernize infrastructure, reduce operational complexity, and accelerate innovation across AI, data, VDI, and hybrid cloud environments.

Whether you're refreshing legacy systems, navigating VM uncertainty, or scaling cloud-native workloads, HPE provides the technology, services, and financial flexibility to help you succeed. With built-in security, AI-driven automation, and extensible architecture, HPE enables IT leaders to take control of their infrastructure strategy and drive measurable business outcomes.



## Learn more at

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