

MODERNIZING VIRTUALIZATION WITH HPE

Navigating complexity and competing priorities

- Increasing diversity of applications, runtimes and deployment environments across on-premises and public cloud
- 2–4x cost increases due to vendor lock-in, forced bundling, and VM sprawl
- Pressure to provision workloads on-demand to accelerate innovation
- Operations must maintain SLAs and manage costs, while struggling with complex processes and manual handoffs

Optimize and modernize

1.



Reduce costs and complexity of installed base to give you the freedom to focus on what's next

Optimize today:

- Use **HPE CloudPhysics**, a free host licensing simulator,¹ to run multiple scenarios on what to do next across infrastructure and licensing.
- Update compute to latest generation to get more done with fewer cores, reducing **virtualization software by 27%**, saving 65% on power, and gaining a 7:1 reduced footprint.²
- Deploy HPE Morpheus VM Essentials Software with socket-based licensing to achieve **significant savings of up to 90%** for migrated workloads.³
- Achieve **2.5x lower TCO**⁴ by separating storage from compute with disaggregated hyperconverged (dHCI) to allow scalability of storage without using VM core licenses.
- Move from software emulation to DPU accelerated switches to **reduce networking TCO by up to 48%**, while boosting performance up to 10x.⁵
- If you need to remain VMware® exclusive you can still significantly reduce TCO with a fully integrated private cloud solution, available in a consumption model.

2.



Re-evaluate workloads to determine the right mix going forward

Modernize for what's next:

- Assess your current workloads and **determine which to modernize to cloud native**, or repatriate to on-premises infrastructure
- Select a vendor and platform that's hybrid by design and gives you the flexibility to **modernize at your own pace**
- Engage HPE Services to help you **assess, transform and manage** your virtualization modernization

3.



Tackle the complexity across all runtimes, on-prem/cloud

Move to a hybrid cloud operating model by design:

- Embrace **a platform operations model** to provision any workload into any cloud on-demand, simplify deployment and management for any runtime, centralize infra-as-code and automation workflows, and reduce risk exposure with policy-based guardrails
- Provide autonomous IT operations with full-stack observability and context, using AI analytics to predict and prevent issues quickly
- Streamline IT operations from discovery to remediation with an operations copilot to enhance insights and efficiency

¹ Host Licensing simulator available to HPE sales and partners as part of the trusted advisor view.

² SPEC and the names SPECrate are registered trademarks of the Standard Performance Evaluation Corporation (SPEC). The stated results (SPECrate2017_int_base: #36693 [1], #36691 [2], #20893 [3], #37007 [4]) are published as of 01-01-2025, see spec.org, and compared against a 48-core estimated Gen12 system. All rights reserved. (5) Power savings based on the Thermal Design Power of the systems. (6) VM software savings per term of the license. Virtualization savings analysis based on core-based licenses as on April 9th, 2025. The calculations were made by comparing to a Gen12 with 48 cores per socket. Savings do not include discounts and subject to change without notice.

³ Based on internal analysis of the cost of HPE Morpheus VM Essentials Software licensing versus available market data on cost of existing virtualization licensing (VMware vSphere® Foundation). Savings do not include discounts and subject to change without notice.

⁴ Based on Enterprise Strategy Group, Economic Validation: Analyzing the Economic Benefits of Hewlett Packard Enterprise GreenLake for Private Cloud Business Edition, May 2024.

⁵ Based on internal analysis of the cost of a 10-rack configuration using HPE Aruba Networking CX 10000 versus available market data on cost of existing software-based networking features (VMware NSX®) over a 5 year period; and scaling of HPE Aruba Networking CX 10000 with ~800G Firewall compared to ~80G Firewall from a leading vendor.



Resulting benefits from the HPE GreenLake cloud

HPE Private Cloud solutions with HPE Morpheus Enterprise Software transform infrastructure into on-premises private clouds that are hybrid by design, and ready for the next generation of workloads. These solutions unify your operating model across on-premises and cloud environments, providing comprehensive abstraction across services, runtimes, and infrastructure.

Developers and project teams benefit from the ability to deploy virtual machines, containers, and applications on demand. Meanwhile, finance, security, and IT teams can be assured that guardrails are in place across any cloud, runtime, and technology stack.

Available however you want to consume it:

- Software-only for existing systems
- Self-managed private cloud solutions with integrated lifecycle management and one-click upgrades, suitable from the distributed edge to the data center
- Managed for you as a service

Learn more at

[HPE.com/virtualization](https://hpe.com/virtualization)

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