Enterprise Strategy Group
by TechTarget

Modernize IT Infrastructure for Modern Applications with Nutanix, HPE, and Intel

Organizations need to modernize infrastructure in order to accelerate operations.

Hyperconverged infrastructure (HCI) technology is a great way to modernize infrastructure.

Nutanix with HPE GreenLake and Intel extends the benefits of HCI technology, including improved IT automation and integration, improved scalability, improved productivity of IT staff, and improved hybrid cloud management.

On-premises Modernization Accelerates Digital Initiatives

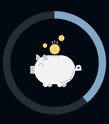
Research from TechTarget's Enterprise Strategy Group identifies the critical need for businesses to prioritize on-premises modernization.

HCI technology can play a key role in both on-premises modernizations as well as simplifying hybrid and multi-cloud operations.

Operational Benefits of HCI Adoption

Increased productivity of IT staff
53%

Increased agility to deploy applications faster
44%

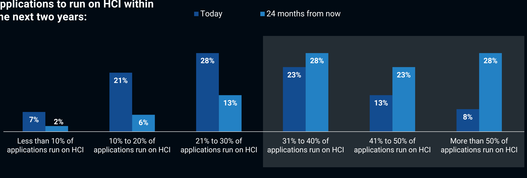


More operational savings
39%

Benefits of HCI Fuel Increased Usage

As a result of these benefits, users of HCI technology expect to expand adoption to a wider range of applications and workloads.

The majority (79%) of organizations **expect more than 30% of their applications to run on HCI within the next two years:**



The Rise of AI and Generative AI Transforms Business and Infrastructure

The rise of AI and generative AI (GenAI) workloads is fueling increased investment.

Where AI is deployed hinges on a variety of factors, including the cost of infrastructure and resources (34%), compliance and regulatory requirements (30%), access to technical resources and expertise (29%), and flexibility in resource provisioning and consumption (29%).

In addition, discrete GPUs are not always required to support AI or GenAI workloads. Intel has integrated an AI accelerator into their Intel Xeon processors, in many cases enabling existing infrastructure to effectively run AI.

Cost and Compliance Drive Decisions on Where to Place AI Infrastructure

34%
Cost of infrastructure and resources

30%
Compliance and regulatory requirements

29%
Access to technical resources and expertise

29%
Flexibility in resource provisioning and consumption

28%
Existing team skills and experience

27%
Availability of specialized hardware or software

25%
Versatility of infrastructure to support different workloads

25%
Ability to ramp up projects faster

25%
Proximity to data sources and data privacy requirements

25%
Latency and network connectivity requirements

Nutanix, HPE, and Intel Collaborate to Modernize Data Centers and Hybrid Cloud Management

The combination of Nutanix and the HPE ProLiant DX server series with Intel Xeon Scalable processors integrates seamlessly with Nutanix HCI, leveraging Nutanix software for virtualization, database, and software-defined storage.

The Nutanix Cloud Platform:

- Accelerates time to value.
- Delivers increased performance and availability.
- Simplifies management.

> **Organizations can deploy, run, and scale applications on a single platform with on-premises performance, control, and security.** In addition, the Nutanix Cloud Platform provides hypervisor options and enables users to decide which clouds to run on as well as where licenses can run."
>
> —**Scott Sinclair,** Practice Director ENTERPRISE STRATEGY GROUP

The solution also has the following key benefits:

A resilient, self-healing design that handles disruptions in real time, with no single points of failure.

Replication to ensure data redundancy and availability if a node or drive fails.

Delivery of millions of IOPs with consistent sub-millisecond response times, including tunable levels of performance through the broad range of Intel Xeon Scalable processor options.

A distributed metadata store that enables AOS Storage to split vDisks into fine-grained data pieces, delivering dynamic and automated data placement and management, as well as better performance.

The ability to support advanced configurations using NVMe drives after taking advantage of Intel libraries and tools to optimize performance.

The unification of different data types in a single, easily managed platform.

The HPE ProLiant DX Gen11 server portfolio, coupled with Nutanix HCI, combines the performance of advanced Intel Xeon Scalable processors with flexibility and simplicity. These processors are designed for real-world workloads, including analytics, AI, and security, with built-in accelerators that help boost performance and efficiency across a distributed enterprise, from edge to cloud.

Conclusion

Nutanix, Intel, and HPE partnered to give organizations a broad choice of methods for powering private, hybrid, and multi-cloud environments.

They make it easy for users to build cloud infrastructures for any workload with self-service operations, including the economic benefits of the cloud.

Organizations can start small and scale as needed with buffered capacity and with the flexibility of Capex or Opex consumption models.

Users can deploy applications quickly with a pay-per-use model for improved visibility into usage and costs.

NUTANIX

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LEARN MORE

Source: Enterprise Strategy Group Research Report, *Hyperconverged Infrastructure Trends*, April 2022.
Source: Enterprise Strategy Group Complete Survey Results, *2021 Data Infrastructure Trends*, September 2021.
Source: Enterprise Strategy Group Research Report, *Navigating the Evolving AI Infrastructure Landscape*, September 2023.