




# Learn How a Smart Hyperconverged Infrastructure Can Improve Your Business Competitiveness

Drive Hypergrowth With Next-Generation Hyperconvergence



# Enterprises Are Challenged To Embrace Cloud-Like Infrastructure Delivery To Sustain Competitive Edge

Business leaders are under growing pressure to introduce digital transformation strategies that present opportunities to uncover new revenue potential and enhance customer loyalty. Accelerating innovation, improving efficiency and maximizing returns on existing products are mandates.

To deliver on the potential of digital innovation, IT teams must keep up with new business technologies for a competitive edge. Modernizing the data center is key to enabling digital transformation. But business leaders and IT teams have significant challenges to overcome in order to keep pace and thrive. They need to:

- Quickly respond to dynamic market changes.
- Maximize underutilized IT resources.
- Improve operational efficiency.
- Deliver workload-specific service level agreements (SLAs).
- Provide continuous application availability.

A hyperconverged infrastructure can help. It's time to learn how the business and technical advantages of a hyperconverged infrastructure can accelerate your digital transformation.

## Hyperconverged Infrastructure: the Next Stage of IT Transformation

- 1 Meets the challenges of today's fast-paced business and technology innovation environments.
- 2 Is a game-changer for IT efficiency and cost control.
- 3 Easily bridges integration gaps from legacy to modern data centers.
- 4 Allows you to do more with greater flexibility for software-defined data centers.
- 5 Improves predictability to support business growth.



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By 2020, 20% of business-critical applications currently deployed on three-tier IT infrastructure will transition to HCI.<sup>1</sup>

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# 1 Smart, Hyperconverged Infrastructure for Modern Data Centers

Traditionally, the do-it-yourself (DIY) model provided choice: You picked best-of-breed components and integrated them yourself. However, it required expertise and resources to make the components work together in weeks and months.

Converged infrastructure combined compute, network and storage, and it provided the ability to manage the entire stack from a single pane of glass, abstracting functionality through a hypervisor. However, storage was not integrated tightly enough and its management still required a specialist.

Hyperconverged infrastructure is an evolution of converged infrastructure, delivering ultimate simplicity, in not only bringing together compute and storage, but also collapsing them for tight integration. It eliminates data locality issues for latency-sensitive business applications.

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<sup>1</sup> Gartner Magic Quadrant for Hyperconverged Infrastructure [HCI], 2018



## 2 The Cost Control You Need

Hyperconverged infrastructure allows businesses to invest in infrastructure only when needed to support business growth, eliminating upfront capital expenditure (capex) investments in capacities and performance. Operationalizing of capital investments allows IT to be in lock step with business requirements. It offers management of the complete stack from a single view, without requiring multiple interfaces to provision, orchestrate and monitor a three-tier architecture. Further, it simplifies the entire process, from planning and procurement to production operations.

Tightly integrating compute, storage and hypervisor enables a virtual infrastructure (VI) administrator to manage the entire setup, without requiring specialized skill sets for storage management.

## 3 Bridge Gaps With Next-Generation Hyperconverged Infrastructure

The first hyperconverged solutions delivered on some promises, such as reduced acquisition costs, pay-as-you-go approaches that eliminated upfront capex, and easier management. Unfortunately, these solutions also created new gaps for IT teams. They did not integrate with existing infrastructure, increased CPU consumption, lacked adequate policy-based automation, and were not application-centric.

Next-generation hyperconverged solutions successfully bridge these gaps in a variety of ways. They provide industry-standard components for easy integration, and improved deduplication and compression that lower total cost of ownership (TCO). Additionally, data services are managed by a hypervisor, with minimal impact on performance, scale linearly and deliver continuous application availability. These new benefits are significant for any infrastructure.

# 4 More Flexibility for Software-Defined Data Centers

Hyperconverged infrastructure leverages software-defined data center elements and provides granularity to scale linearly with predictable performance.

Linear scale-out offers investment predictability, without requiring massive upfront expenditure. Start with a single appliance and grow as needed with small increments of capacity and performance.

For distributed enterprises, compact hyperconverged infrastructure is an ideal solution. It maximizes resource utilization and improves operational efficiency with power and space savings, while eliminating the complexity of managing these systems.

# 5 Do More With Less

Next-generation applications, such as artificial intelligence (AI) and machine learning (ML), require a high-performance storage solution to fully realize their innovation potential. All nonvolatile memory express (NVMe) hyperconverged systems provide highly scalable performance with low latency to deliver massive workload consolidation opportunity for all enterprise apps.

Smart hyperconverged infrastructure with NVIDIA virtual GPUs provides virtual workspaces and desktops to every user, from knowledge workers and mobile professionals to engineers and designers. Organizations can be confident of exceptional performance enhancement for graphics-intensive apps, such as virtual desktop infrastructure (VDI), computer-aided design (CAD) and computer-aided engineering (CAE) simulations, product design developments, visual analytics and so forth.

Speed Business Results With a New Approach to IT

**Choose** a smart software-defined-data-center strategy to improve IT agility.

**Radically simplify** planning, provisioning and IT management.

**Align** technology with business priorities using a pay-as-you-go model.

**Eliminate** management silos with IT continuity.

# Propel Your Organization's Digital Transformation With a Hyperconverged Infrastructure

Align your business priorities and simplify your data center with a hyperconverged solution to improve efficiency, while ensuring always-on availability. Start your journey with a single vendor that can help you manage the entire life cycle of your hyperconverged appliance, from design to implementation.

## Take the Next Step

Modernize your data center with Hitachi Unified Compute Platform HC for hyperconverged systems.

[SEE HITACHI VANTARA SOLUTION](#)

Explore the business and IT benefits of Hitachi hyperconverged systems, from automation and pay-as-you-go approaches to advanced analytics, and hybrid and all-flash configurations.

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