HITACHI
Inspire the Next

Learn How a Hyperconverged Infrastructure Can Improve Your Business Competitiveness

Drive Hypergrowth With Next-Generation Hyperconvergence

BEST PRACTICES GUIDE

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.

In order to deliver on the potential of digital innovation, IT teams must keep pace with new business technologies for a competitive edge. But business leaders and IT teams have significant challenges to overcome in order to keep pace and thrive, such as:

- Quickly responding to dynamic market changes.
- Maximizing underutilized IT resources.
- Maintaining a skilled team to manage IT operations.
- Delivering workload-specific service level agreements (SLAs).
- Providing 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.

> Gartner predicts that over 30% of data-center storage to be deployed in hyperconverged infrastructure by 2019, registering year-over-year growth of over 50%.[1]

1 Evolution From Do-It-Yourself (DIY) to Hyperconverged Infrastructure

Traditionally, the 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, eliminating the data locality issues for latency sensitive business applications.

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[1] Gartner Magic Quadrant for Integrated Systems, October 10, 2016

2 The Cost Control You Need

Hyperconverged infrastructure allows businesses to invest in infrastructure only when needed to support business growth, eliminating up-front 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 of their promises, such as reduced acquisition costs, pay-as-you-go 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, with industry-standard components for easy integration, and improved deduplication and compression that lower 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 Tap Into the Full Power of Your Virtual Machines

A policy-based management framework allows provisioning and granular data operations to deliver quality of service (QoS) per virtual machine (VM). This framework makes IT application-centric, rather than infrastructure-oriented, and improves resource utilization. At the same time, it meets the performance and availability needs of each application. VMware vSphere administrators can also assign policy to each VM, ensuring that the right storage services are delivered to VMs to meet their requirements, as expressed through policies.

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 for hyperconverged systems.

SEE HITACHI SOLUTION ›

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

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HDS at a Glance

Digital transformation improves enterprises' cost-efficiency, time to market, customer experience, and revenue through better data management. Hitachi Data Systems uses data to power the digital enterprise.

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