# Reimagining HCI to take it further

## HPE Alletra dHCI

**Accelerate time to market, end firefighting, and optimize everything with an intelligent platform designed for business-critical applications and mixed workloads.**

**HPE Alletra dHCI** radically simplifies infrastructure for applications by reimagining HCI without compromise.

- **Intelligently simple:** Automated and on-demand with full-stack intelligence and policy-based automation for VM-centric management from HPE GreenLake.
- **Absolutely resilient:** Designed for 100% data availability with HPE Alletra Storage MP with all-flash speed and sub-ms latency for always-on apps[1]
- **Efficiently scalable:** Grow compute and storage independently, extended across a hybrid cloud, with industry-leading data efficiency
- **Cloud experience:** HPE Alletra dHCI is now available with a cloud operation experience through HPE GreenLake for Private Cloud Business Edition, delivering virtual machine on demand that accelerates time to value and simplifies IT management.

[1] hpe.com/psnow/doc/a00026086enw?from=app&section=search&isFutureVersion=true

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## Extending hyperconvergence

Virtual machine (VM) administrators today are challenged by system complexity requiring multidomain experience, the pressure to support both traditional and modern applications, fighting VM sprawl, while being asked to reduce cost.

Hyperconverged infrastructure (HCI) addresses these challenges—enabling compute, storage, and networking functions to be decoupled from the underlying infrastructure. It is an ideal architecture that makes it simple to deploy, manage, and upgrade infrastructure when scaling compute and storage together.

There's a need to evolve HCI with a new architecture that delivers the HCI experience of unified management and VM-centric operations with higher availability, faster performance, and flexibility at scale. HPE Alletra dHCI lets VM administrators unlock agility and accelerate time to market on a platform designed for general-purpose, business-critical, and mixed workloads at scale.

## HPE Alletra dHCI

Taking HCI further, HPE Alletra dHCI overcomes the limitations preventing HCI from supporting more demanding applications and workloads. Powered with HPE GreenLake for Private Cloud Business Edition,[2] HPE Alletra dHCI gives enterprises ultimate simplicity for their virtualized environments with fast application performance, always-on data resilience, and resource efficiency.

**2.5x**
Lower TCO with disaggregated HCI[3]

Designed for
**100%**
Data availability

**Up to 5x**
Data reduction[4]

**10x**
Faster[5]

**5x**
More efficient[6]

**4x**
More resilient[7]

[2, 5, 6, 7] hpe.com/psnow/doc/a00058506enw?from=app&section=search&isFutureVersion=true

[3] ESG Economic Analysis Report, February 2022

[4] Spend less on all-flash storage—HPE Store More Guarantee

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## Intelligently simple

VM administrators face resource silos and information overload that drain productivity. Complicated end-to-end infrastructure management takes precious time and puts them in unfamiliar territory. HPE Alletra dHCI enables VM administrators to stand up full stack infrastructure including compute, storage, and network, in minutes, through the automation software. Customers can leverage the latest innovation across HPE ProLiant Gen11 servers, HPE Alletra Storage, and HPE networking. Ongoing management is easy and self-serviceable, from within VMware vCenter® and HPE GreenLake edge-to-cloud platform. Planning is simple, as resources are forecasted prescriptively across multiple tenants, powered by HPE InfoSight.

The HPE Alletra dHCI features provide a fast, self-service experience include unified management with simple setup and auto-discovery via VMware vCenter. The offering includes software-defined data services integrated with VMware vSphere® and VMware vSphere® Virtual Volumes™ for a native VM experience. It also includes cross-stack analytics that help eliminate guesswork when consolidating new applications, as well as VM recommendations for optimizing performance and resources. HPE Alletra dHCI has simplified lifecycle management with single-click, non-disruptive software upgrades for hypervisor software and firmware for HPE servers and storage at full scale.

## Absolutely resilient

Application growth and ever-expanding data lead to firefighting. Applications must be always-on and always-performing. Still, VM sprawl and unchecked data growth make it hard to see and resolve issues.

HPE Alletra dHCI keeps applications running nonstop and fast with HPE InfoSight. Data-centric visibility extends across the infrastructure and across every VM. This unique predictive analytics capability quickly diagnoses performance problems and identifies the root cause, driving an 85% auto-resolution across its installed base.[8] Sprawling VM farms are easily kept under control and app resources are optimized.

Specific ways that HPE Alletra dHCI helps ensure a fast application platform include all-flash storage with the IOPS and sub-ms latency for latency-intensive applications. Resilience is delivered in a number of ways, by being designed for 100% data availability with HPE Alletra Storage MP, all-active controller design and a disaggregated HCI architecture.

[8] hpe.com/psnow/doc/a00058506enw?from=app&section=search&isFutureVersion=true

## Efficiently scalable

Rigid, inflexible infrastructure leads to waste and anchors applications to either on-premises or public cloud, stalling hybrid cloud strategies.

HPE Alletra dHCI brings efficiency for any scale environment, across hybrid clouds. Independent scaling of performance and capacity provides flexibility for varying workloads, from transactional databases needing more performance to data warehouses needing more capacity, avoiding costly overprovisioning. Non-disruptive scaling is enabled through flexible storage options including all-flash, hybrid flash, and HPE GreenLake for Backup and Recovery.

Enterprises can extend efficient scaling out to the cloud with native data mobility across on-premises and cloud storage to modernize data protection. In addition, the HPE Store More Guarantee provides more data per raw terabyte compared to competitive arrays, with average customers achieving flash storage data reduction savings up to 5x.

## Achieve HCI without compromise

Organizations should not have to make compromises. Instead, there's a need to evolve HCI to a standard that achieves HCI without compromise—with new solutions that deliver the simple HCI experience, but with better economics, faster performance, and intelligently simple automation for Day 2 and beyond.

## Get started

Built for mixed-workloads at scale, HPE Alletra dHCI unlocks IT agility, while ensuring apps are always-on and always-fast. It's an effortless experience for anyone with VM-centric and AI-driven operations. It's ideal for mission-critical apps and mixed workloads with 100% of data availability guaranteed and sub-ms latency.[9] It lowers cost—eliminating overprovisioning delivering 2.5x cost savings—with flexible, independent scaling of compute and storage and industry-leading data efficiency.[10] And, HPE Alletra dHCI maximizes agility by unlocking the cloud experience across private/hybrid cloud.

[9] hpe.com/psnow/doc/a00058506enw?from=app&section=search&isFutureVersion=true

[10] ESG Economic Analysis Report, February 2022

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