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REIMAGINING HCI TO TAKE IT FURTHER

HPE Nimble Storage dHCI

HPE Nimble Storage dHCI radically simplifies infrastructure for applications by reimagining HCI without limitations.

- **Intelligently simple:** Automated and on-demand with full-stack intelligence and policy-based automation for VM-centric management

- **Absolutely resilient:** Designed for 99.9999% availability 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 Nimble Storage dHCI is now available through HPE GreenLake, delivering virtual machine as-a-service that accelerates time to value and simplifies IT management. As a cloud consumption experience, businesses pay monthly for what they use, convert capital to operating expense, and scale compute and storage on-demand

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

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 to HCI 2.0—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 Nimble Storage dHCI lets VM administrators unlock agility and accelerate time to market on a platform designed for business-critical application and mixed workloads.

HPE NIMBLE STORAGE DHCI

Taking HCI further, HPE Nimble Storage dHCI overcomes the limitations preventing HCI from supporting more demanding applications and workloads. Powered with HPE InfoSight, the industry's most advanced artificial intelligence for infrastructure,[2] HPE Nimble Storage dHCI gives enterprises ultimate simplicity for their virtualized environments with fast application performance, always-on data resilience, and resource efficiency.

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 Nimble Storage dHCI enables VM administrators to stand up full stack infrastructure including compute, storage, and network, in minutes, through the dHCI automation software. Ongoing management is easy and self-serviceable, from within VMware vCenter®. Planning is simple, as resources are forecasted prescriptively across multiple tenants, powered by HPE InfoSight.

The HPE Nimble Storage 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 what-if simulations that help eliminate guesswork when consolidating new applications, as well as app-aware recommendations for self-optimizing performance and resources. HPE Nimble Storage dHCI has simplified lifecycle management with single-click, non-disruptive software upgrades for VMware ESXi™ hosts, firmware, NimbleOS, and Nimble Connection Manager (NCM) at full scale.

[1] h20195.www2.hpe.com/v2/getdocument. aspx?docname=a00026086enw

[2] h20195.www2.hpe.com/v2/getdocument. aspx?docname=a00058506enw

15 minutes
Rack-to-apps[3]

Designed for
99.9999%
Data availability

Zero
Wasted resources[4]

Up to 5X
Data reduction[5]

10X
Faster[6]

5X
More efficient[7]

4X
More resilient[8]

LEARN MORE AT
hpe.com/storage/dhci

3, 4 ESG Technical Validation—Extending the Hyperconverged Experience to Workloads with Unpredictable Growth, June 2019

5 Efficiency at any scale through HPE Store More Guarantee

6, 7, 8, 9, 11, 12 h20195.www2.hpe.com/v2/getdocument.aspx?docname=a00058506enw

10 Elements of the Timeless Storage program. Find more details from HPE Nimble Storage—Timeless Storage

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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 Nimble Storage 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.[9] Sprawling VM farms are easily kept under control and app resources are optimized.

Specific ways that HPE Nimble Storage dHCI helps ensure a fast application platform include all-flash storage with the IOPS and sub-millisecond latency for latency-intensive applications. Resilience is delivered in a number of ways, by being designed for 99.9999% availability, automated quality of service, advanced data integrity that tolerates three simultaneous drive failures, and native snapshot backup and replication that provides data protection on-premises and on the cloud.

EFFICIENTLY SCALABLE

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

HPE Nimble Storage 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 Cloud Volumes.

Enterprises can extend efficient scaling out to the cloud with native data mobility across on-premises and cloud storage with support for Google™ Anthos and HPE Cloud Volumes. 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.

Timeless Storage with HPE Nimble Storage is also part of the solution. This program encompasses an uptime guarantee, data-in-place upgrades, all-inclusive software, and flat support pricing.[10]

HPE DELIVERS AN INTELLIGENT DATA PLATFORM[11]

HPE delivers an intelligent data platform for your hybrid cloud, whether built on the HPE Nimble Storage dHCI offering or other portfolio products. Designed for 99.9999% availability, achieve up to an 85%[12] increase in IT efficiency with AI powered by HPE InfoSight.

The HPE workload-optimized flash portfolio provides the ultimate destination for all data types and an architectural foundation for seamless data mobility. This portfolio includes HPE Synergy with HPE Primera, HPE Nimble Storage dHCI, and HPE SimpliVity.

GET STARTED

HPE Nimble Storage dHCI is intelligently simple to use, ready for demanding applications, and built for efficiency at scale.

HPE Nimble Storage dHCI radically simplifies infrastructure for every application by reimagining HCI without limitations. Customers gain the HCI experience of unified management and VM-centric operations to unlock agility with higher availability, faster performance, and flexible scaling for business-critical applications and mixed workloads.