

AZURE STACK HCI ON THE HPE APOLLO 4200

Software-defined HCI for Microsoft Windows Big Data

Azure Stack HCI on HPE Apollo storage—Benefits to you HPE Apollo provides a valuable platform for your Windows software-defined HCI:

- Affordable simplified infrastructure for on-premises IT
- Easier adoption of new Big Data workloads with this simple yet high-performing infrastructure
- Reduced cost of IT through leveraging existing Microsoft licensing and Windows admin expertise
- Easier capacity planning with this data design
- Control space, power, and admin cost with a high-density footprint
- Deployment and configuration guidance through technical white papers and other published documentation and training
- Confidence in continued road map of platform innovation and co-development

Get the convenience of a hyperconverged infrastructure on a high-capacity platform for the most data-intensive workloads



Organizations are moving towards simplified IT infrastructures to reduce cost and complexity and the need for specialized expertise. Yet IT applications are just as demanding in terms of performance, and data continues to expand into dozens of petabytes for most companies. Some applications such as collaboration, analytics, and Big Data are more data-intensive than most. More companies are becoming aware of the need for easy-to-use hyperconverged infrastructure (HCI) for demanding, data-centric workloads.

Azure Stack HCI on HPE Apollo 4200 system is a new solution that addresses the growing needs of the Big Data HCI customer. Azure Stack HCI on HPE Apollo is built on the highest-capacity Azure Stack HCI

qualified 2U server, bringing an unmatched ability to serve Big Data workloads on a Windows software-defined HCI appliance.

The new offering completes the industry's broadest line of related solutions, which include HPE Synergy-based composable solutions for enterprise-scale infrastructure, HPE Nimble Storage dHCI distributed hyperconverged solutions, HPE SimpliVity for general-purpose hyperconverged requirements, VMware vSAN™ software-defined solutions on HPE ProLiant servers for business workloads, and now Azure Stack HCI on HPE Apollo storage targeting Big Data and analytics applications.

AZURE STACK HCI— A WINDOWS SOFTWARE-DEFINED HYPERCONVERGED SOLUTION

Azure Stack HCI is a Microsoft software-defined HCI solution that pairs Windows Server 2019, Hyper-V, Storage Spaces Direct, and Windows Admin Center management, along with partner x86 hardware. It is used to run Windows and Linux® VMs on-premises and at the edge with existing IT skills and tools.

Azure Stack HCI is a convenient way to realize the benefits of hybrid cloud because it makes it easy to leverage the cloud-based capabilities of the Microsoft Azure cloud. These cloud-based data services include: Azure Site Recovery, Azure Monitor, Cloud Witness, Azure Backup, Azure Update Management, Azure Network Adapter, and Azure Security Center, to name a few.

The Azure Stack HCI program includes validation led by Microsoft for hardware, which ensures optimal performance and reliability for the solution. This testing extends to technologies such as NVMe drives, persistent memory, and remote direct memory access (RDMA) networking. Customers should use only hardware systems validated by Microsoft when deploying their Azure Stack HCI production environments. HPE validated solutions can be found online in the [Microsoft Azure Stack HCI Catalog](#).

HPE APOLLO 4200 GEN10 STORAGE SYSTEM— HIGH-CAPACITY/DENSITY FOR WINDOWS HCI

The HPE Apollo 4200 Gen10 system delivers leading scale and throughput for Azure Stack HCI.

The HPE Apollo 4200 system can accommodate 392 TBs of data capacity within just a 2U form factor. This leads

all other Azure Stack HCI validated 2U solutions.¹ In addition, the HPE Apollo storage system is a leader in bandwidth, supporting 100 Gb Ethernet and 200 Gb InfiniBand options. Customers are already running large scale, data-centric applications such as Microsoft Exchange on HPE Apollo systems and can now add Azure Stack HCI as a means to simplify the infrastructure stack while preserving performance and the space-efficient 2U footprint.

The HPE Apollo Gen10 system is future-proofed with Intel® Cascade Lake processors for more cores and faster processing, along with memory enhancements and support for NVMe storage. The HPE Apollo systems leverage a Big Data and high-performance computing heritage, and have an established Fortune Global 500 customer track record.

AZURE STACK HCI ON HPE APOLLO SOLUTION— MORE THAN JUST HARDWARE

The HPE Apollo 4200 system is at the core of this Microsoft software-defined HCI solution, but there is much more to the solution. HPE solution engineering teams perform testing on all solution designs, and publish technical white papers to provide guidance on implementation, administration, and performance optimization. HPE also trains authorized reseller partners to help ensure fast, successful deployments, and fast time-to-solution for customers.

Windows Admin Center (WAC) is becoming the new standard interface for Windows system management. HPE is developing extensions for WAC that will make it easier to manage HPE Apollo systems within Windows Server 2019 environments as well as specifically within Azure Stack HCI clusters.

With an HPE Storage solution, customers also enjoy high availability through HPE InfoSight offers predictive analytics that delivers the uptime benefits of AI to the data center.

¹ HPE Apollo 4200 highest capacity 2U validated Azure Stack HCI device, per the [Microsoft Azure Stack HCI catalog](#) as of October 21, 2019



HPE BRINGS INNOVATION TO WINDOWS WITH THE WORLD'S MOST INTELLIGENT STORAGE

HPE delivers an intelligent data platform that enables IT organizations to transition from deploying data storage to unlocking business value with intelligent data.

HPE InfoSight—the IT industry's most established AI platform—is the key feature in enabling autonomous, self-managing data storage. HPE InfoSight has analyzed application patterns across 1,250 trillion data points over the last decade to predict and prevent disruptions across storage, servers, and virtual machines, resulting in savings of more than 1.5 million hours of lost productivity due to downtime.

HPE InfoSight provides the intelligent foundation for all HPE storage products, creating the industry's only end-to-end AI capability for self-managing storage.

GET STARTED

The Azure Stack HCI on HPE Apollo solution is available today. It is the largest-capacity 2U Azure Stack HCI validated solution available and has been officially qualified for all-flash, hybrid SAS SSD, and NVMe, providing options for affordable and high-performance data storage.

The Azure Stack HCI on HPE Apollo solution is the go-to choice for analytics and data-centric Windows workloads. Get an easy-to-manage infrastructure with native Windows administration. Available with the solution are published technical guidance documents, including white papers and related resources with WAC extensions on the way.

LEARN MORE AT

hpe.com/storage/microsoft



Make the right purchase decision.
Contact our presales specialists.



Chat



Email



Call



Share now



Get updates