Hewlett Packard Enterprise

Solution brief

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AZURE STACK HCI ON THE HPE APOLLO 4200

Hybrid cloud infrastructure for Windows data-intensive workloads

Azure Stack HCI on HPE Apollo 4200 Gen10/Gen10 Plus storage—Benefits to you. HPE Apollo provides a valuable platform for your Windows software-defined HCI:

- Affordable simplified infrastructure for hybrid cloud

- Easier adoption of data-intensive Windows virtualized workloads with this simple yet high-performing infrastructure

- Easier infrastructure planning with high-capacity and high-density design and multiple validated configurations with hybrid HDD, SAS/SATA, and NVMe SDD

- Control space, power, and admin cost with a high-density 2U 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 teams still need the latest in disaster recovery, data protection, and other data services, especially with growing data capacity requirements. Some applications such as collaboration, analytics, databases, and video are more data-intensive than most. More companies are becoming aware of new cloud-connected hyperconverged infrastructure (HCI) for demanding, data-intensive workloads.

Microsoft Azure Stack HCI brings hybrid cloud to your data center in a very manageable, seamless way. It is driven by software-defined intelligence, and it leverages Windows familiarity and expertise while hard-wiring your IT effort into all of the on-demand agility and cloud-based power of the Azure cloud.

Azure Stack HCI on HPE Apollo system is a high-capacity/density platform solution that enables the best hyperconverged infrastructure for data-intensive workloads. It leads the market in variety of storage media types, configurations, and capacity in a validated 2U design.

This updated offering complements what is already **the industry's broadest line of HCI and related solutions** with a range of solutions based on HPE ProLiant servers, HPE dHCI distributed hyperconverged solutions, HPE SimpliVity for general-purpose HCI, VMware vSAN™ software-defined solutions on HPE ProLiant for business workloads, and Azure Stack HCI on HPE Apollo 4200 Gen10 and Gen10 Plus systems targeting data-intensive virtualized Windows workloads.

AZURE STACK HCI—A WINDOWS SOFTWARE-DEFINED HYPERCONVERGED SOLUTION

Azure Stack HCI is a Microsoft software-defined HCI solution that pairs the new Azure Stack HCI code base 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 Backup, Update Management, File Sync, Azure Monitor, 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.

Azure Stack HCI

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

The HPE Apollo 4200 Gen10 system has always delivered leading scale and performance for Azure Stack HCI.

The new HPE Apollo 4200 Gen10 Plus system adds more performance and high data capacity within just a 2U form factor. In addition, the HPE Apollo storage system provides leading 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 new HPE Apollo Gen10 Plus system ships with two third-generation Intel® Xeon® Scalable processors with up to 32 cores each, select GPU and FPGA accelerators, 50% more memory at 3200 MT/s speed, Intel® Optane™ Persistent Memory support, and six FHHL PCIe Gen4 slots in a balanced system architecture.

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) has become the new standard interface for Windows system management. HPE has developed extensions for WAC that make it easier to manage HPE Apollo systems within Windows Server environments as well as specifically within Azure Stack HCI clusters.

HPE BRINGS INNOVATION TO WINDOWS WITH 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 is built into every HPE Apollo 4200 Gen10 and Gen10 Plus server. HPE InfoSight has analyzed over 1,250 trillion data points and transformed how storage is managed and supported. Through cloud-based machine learning, it has predicted and prevented thousands of disruptions from storage to applications and automated 85% of support calls. This has ultimately increased infrastructure uptime for our customers.

GET STARTED

The Azure Stack HCI on HPE Apollo solution is available today. It provides hundreds of TBs of data capacity in just a 2U validated solution, and has been officially qualified for a range of all-flash, hybrid SAS SSD, and NVMe configurations, 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 a cloud-connected infrastructure with a single dashboard to manage Windows resources, whether on-premises or in the cloud. Available with the solution are published technical guidance documents, including white papers and related resources that include free WAC extensions.

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