Hitachi Vantara

Increase Flexibility and Agility with Seamless Hybrid Cloud

Hitachi Unified Compute Platform For Microsoft Azure Stack HCI to transform your hybrid cloud

Edge-Core-Cloud Extensibility

Effortlessly and reliably run edge workloads on Hitachi UCP and manage your hybrid cloud with Azure Arc
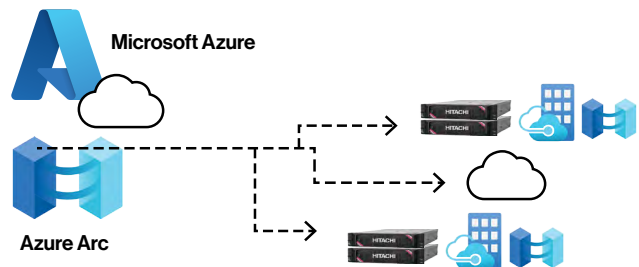
Effective Hybrid Cloud

Run VM and SQL based Apps, VDI, Kubernetes Clusters with AKS and Azure Services on premises with cloud-based efficiency

Reliable Branch/ Edge Processing

Run your critical edge applications on Hitachi UCP for Azure Stack HCI with enterprise grade security and scalability

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Hitachi UCP with Hitachi Advanced Server HA810 G2/HA820 G2 validated nodes for Azure Stack HCI, provides a comprehensive HCI solution for deploying and managing SQL, virtualized and containerized workloads in Azure hybrid cloud service.

Microsoft Azure

Azure Arc

Windows & Linux Server VMs	Azure Kubernetes Services

Hyper-V	Storage Spaces Direct	Software-Defined Networking

Azure HCI OS

Hitachi's validated nodes for Azure Stack HCI

Hitachi Advanced Server HA810 G2 & HA820 G2 validated nodes for Azure Stack HCI are rackmount servers supporting Intel® Xeon® Scalable Processor, with high resiliency and larger internal storage. HA820 G2 has a larger internal storage

1U Server - HA810 G2

2U Server - HA820 G2

Solution Overview

Hitachi Advanced Server HA810/HA820 G2 validated nodes for Azure Stack HCI, combined with Azure Arc integration, provide a powerful, scalable, and secure hybrid cloud solution for businesses of all sizes. This comprehensive solution enables organizations to modernize their data center infrastructure, streamline hybrid cloud management, and maximize the efficiency of their IT resources. Below are the solution components:

Unified Compute Platform

UCP HA810/HA820 G2 validated nodes for Azure Stack HCI provide a high-performance, reliable foundation for organizations seeking to upgrade their on-premises infrastructure. Built on industry-leading hardware, Hitachi advanced servers deliver robust compute power and storage capacity tailored to the needs of modern workloads.
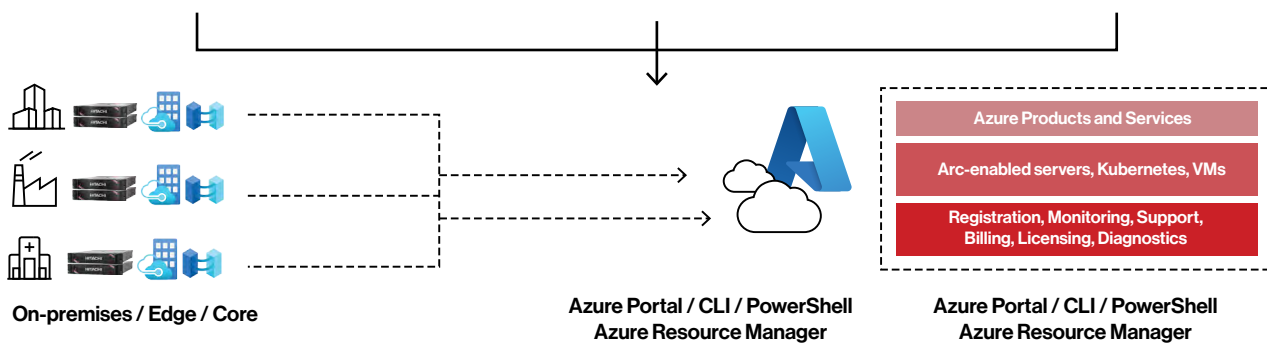
Azure Stack HCI

As Microsoft's hyper-converged infrastructure solution, Azure Stack HCI enables businesses to run virtualized applications on-premises while seamlessly integrating with Azure for cloud services. This hybrid cloud platform simplifies management and deployment, ensuring data security and compliance across diverse environments.

Azure Arc

Azure Arc extends Azure's management capabilities to resources running on-premises, at the edge, or in multi-cloud environments. With Azure Arc, businesses can monitor, manage, and apply consistent policies across their entire hybrid infrastructure, reducing operational complexity and ensuring a unified governance model.

Azure Products and Services

Arc-enabled servers, Kubernetes, VMs

Registration, Monitoring, Support, Billing, Licensing, Diagnostics

On-premises / Edge / Core

Azure Portal / CLI / PowerShell Azure Resource Manager

Azure Portal / CLI / PowerShell Azure Resource Manager

Unify Your Clouds: Azure Arc & Hitachi UCP for Azure Stack HCI - One Control Plane, Boundless Possibilities.

Reliable Branch Office Modernization:

Leverage Hitachi UCP, optional networking, GPUs and Arc-enabled services for agile, scalable Reliable Azure Stack HCI deployments.

Hybrid Application Development:

Accelerate app lifecycle management in Azure and deploy those apps with Azure Arc on the edge footprint with Hitachi UCP.

High Performance Edge Computing:

Harness Hitachi UCP and Azure Arc for real-time data processing and performant SQL databases with portal management.

Disaster Recovery and Business Continuity:

Integrate Hitachi UCP with Azure Site Recovery, Backup, and Arc for robust recovery strategies.

Intelligent Resource Scaling:

Utilize Azure Arc for data-driven decisions with scaling and optimization across on-prem and edge Hitachi UCP nodes.

Extend with Hitachi Edge Portfolio:

Leverage Hitachi's broad range of additional portfolio offerings including software defined object storage for edge.

Streamlined Policy Enforcement:

Utilize Azure Arc for consistent security and compliance policies across Hitachi UCP hosted apps, VMs and containers services.

In-Depth Monitoring and Insights:

Leverage Azure Arc's centralized monitoring for performance insights on Hitachi UCP deployments.

Cloud-Native Workload Support:

Run cloud-native applications with Azure Kubernetes Services (AKS) on Hitachi UCP and extend Azure services with Azure Arc.

Hitachi Advanced Server HA810 G2

Hitachi Advanced Server HA810 G2 validated nodes for Azure Stack HCI is a 1U rackmount server with excellent performance supporting Intel® Xeon® Scalable Processor, with high resiliency and scalability. The HA810 G2 is a highly capable HCI compute solution for hybrid cloud solutions in Edge, Core, Containers, to Cloud environments.

Model	All-flash configuration (SAS SSD)	Hybrid Configuration (NVMe/SAS SSD)	Hybrid Configuration (NVMe/SAS HDD)	Hybrid Configuration (SAS SSD/SAS HDD)
Form factor	1U			
Processor	3rd Generation Intel® Xeon® Scalable Processors			
Number of cores	4 cores or more up to 40 cores x 1 or 2 sockets			
Memory*	64 GiB or more up to 8TiB			
Storage — Cache	none	NVMe 800GB or more x 2 or more	NVMe 800GB or more x 2 or more	SAS SSD 800GB or more x 2 or more
Storage — Capacity	SAS SSD 800GB or more x 4 or more	SAS SSD 800GB or more x 4 or more	SAS HDD 900GB or more x 4 or more	SAS HDD 900GB or more x 4 or more
Network adapter	10/25/100Gb network adapter		10/25Gb network adapter	

Hitachi Advanced Server HA820 G2

Hitachi Advanced Server HA820 G2 validated nodes for Azure Stack HCI is a 2U rackmount server with excellent performance supporting Intel® Xeon® Scalable Processor, with high resiliency and larger internal storage. The HA820 G2 is a highly capable HCI compute solution for hybrid cloud solutions in Edge, Core, Containers, to Cloud environments.

Model	All-flash configuration (SAS SSD)	All-flash Configuration (SAS SSD)	Hybrid Configuration (NVMe/SAS SSD)	Hybrid Configuration (NVMe/SAS HDD)	Hybrid Configuration (SAS SSD/SAS HDD)
Form factor	2U				
Processor	3rd Generation Intel® Xeon® Scalable Processors				
Number of cores	4 cores or more up to 40 cores x 1 or 2 sockets				
Memory*	64 GiB or more up to 8TiB				
GPU Support	NVIDIA (A40, A100, T4)				
Storage — Cache	none	none	NVMe 800GB or more x 2 or more	NVMe 1.6TB or more x 2 or more	SAS SSD 800GB or more x 2 or more
Storage — Capacity	NVMe 800GB or more x 4 or more	SAS SSD 800GB or more x 4 or more	SAS SSD 800GB or more x 4 or more	SAS HDD 1.2TB or more x 4 ore more	SAS HDD 900GB or more x 4 or more
Network adapter	10/25/100Gb network adapter		10/25Gb network adapter		

Challenges Addressed

- **Infrastructure Modernization**
  Deploy infrastructures using Hitachi advanced compute solutions.
- **Data Growth Management**
  Manage data growth effectively with customized storage options.

- **Hybrid Cloud Integration**
  Effortlessly connect on-premises apps to Azure services.
- **Streamlined Operations**
  Enhance hybrid cloud management, security, and compliance.

- **Workload Adaptability**
  Foster growth with robust infrastructure for evolving demands at edge/branch

Solution Key Benefits:

Performance Excellence

Deliver high-performance, optimized Azure Stack HCI with Hitachi Vantara's nodes.

Hybrid Cloud Simplification

Streamline management and operations with seamless Azure integration.

Future-Ready Scalability

Adapt easily to evolving business requirements.

Robust Security

Protect data across locations with comprehensive measures.
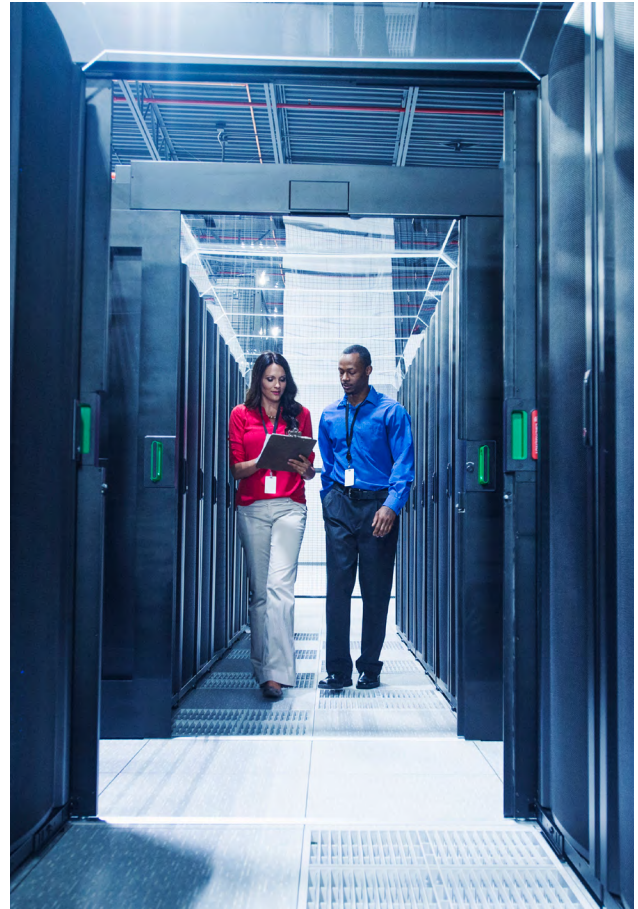
Accelerated Innovation

Foster innovation using on-demand Azure application services.

Legacy App Consolidation

Efficiently run and maintain legacy apps on Azure Stack HCI.

Resilient Scalability

Expand capacity and ensure fault tolerance with Azure Stack HCI.

ABOUT HITACHI VANTARA

Hitachi Vantara, a wholly-owned subsidiary of Hitachi Ltd., delivers the intelligent data platforms, infrastructure systems, and digital expertise that supports more than 80% of the Fortune 100. To learn how Hitachi Vantara turns businesses from data-rich to data-driven through agile digital processes, products, and experiences, visit hitachivantara.com.

Contact Us →

Let us help you modernize and futureproof your hybrid multi-cloud infrastructure.

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