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Dell Technologies Edge with Azure Stack HCI

Harness the capabilities of Microsoft Azure Cloud on-premises with Dell Technologies flexible Azure Stack HCI solution to drive edge outcomes while keeping data secure and simplifying operations.

Executive Summary

Azure Stack HCI is designed to power near and far edge use cases, such as retail, energy, healthcare, and manufacturing, leveraging the data where it is generated. Dell Technologies Azure Stack HCI Edge solution provides essential value, such as real-time data processing and a consistent HCI platform from core to edge. For faster time to value, Dell Technologies Azure Stack HCI supports the Dell private wireless solution.

Solution Spotlight

The Dell Technologies Azure Stack HCI platform enables a private network of virtualized platforms to maximize infrastructure automation, centralized control, and management for edge computing and private mobility. This helps bring the notion of cloud computing capability to the on-premises network edge, allowing you to get the most out of applications, cellular-reliant devices, and a local cellular network.

Solution Key Takeaways	
30%	Of DevOps spending will be for edge-related applications rather than core-related ones by 2027[1]
69%+	Compound annual growth rate (CAGR) in the global edge computing market in 2021–2026[2]
$317B	Worldwide spending on edge computing in 2026[3]

1. IDC FutureScape: Worldwide Developer and DevOps 2023 Predictions (IDC #US48597522, October 2022)
2. TBR Private Cellular Network Forecast, July 25, 2022
3. IDC Press Release, New IDC Spending Guide Forecasts Edge Computing Investments Will Reach $208 Billion in 2023, February 2023

Solution Features

Simplify Azure On-Premises	Infrastructure is delivered as a fully productized solution that is supported and updated as an integrated system to simplifying deployments, day-to-day operations, and ongoing lifecycle management.
Accelerate Innovation	Azure Arc transforms application delivery via hybrid, on-demand services, such as Azure's Kubernetes Service, Virtual Desktops, and AI/ML. Dell Azure Stack HCI offers a wide choice of Dell's MC node configurations to optimize application workloads. Customers can choose 1U/2U nodes, with a choice of CPU core densities, memory configurations, and GPU resources.
Streamline your Azure Ecosystem with Dell Azure Stack HCI	The tools and integrations from Azure Arc help deliver a seamless Azure Cloud experience across distributed locations. Azure operations are optimized and simplified on-premises with a fully engineered, tightly integrated solution offering comprehensive IT operations and lifecycle management automation.

Key Points – Why Choose Dell Technologies?

Ultra Low Latency	Hardware and software designed and optimized for edge applications supporting ultra-low latency required for near real-time data processing.
Privacy and Security	A private and intrinsically secure environment to run critical enterprise applications on Dell Azure Stack HCI platforms.
Integrated Edge Platform	Dell Azure Stack HCI and private wireless (RAN/core) solutions accelerate time to value with pre-integrated and validated solutions. Leveraging 5G plus edge computing helps drive meaningful service revenues and faster ROI.
Customizable	An application-ready platform that can be tailored to support any workload for various edge locations and use cases.
Comprehensive Services Portfolio	A complete line card of services from consulting to deployment, managed services, and support that can augment a partner's capabilities while optimizing business outcomes and time to value.

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