Dell Integrated System for Microsoft Azure Stack HCI and the Microsoft data platform

Standardize your deployment Microsoft SQL Server on a fully engineered and tightly integrated platform designed to streamline the Azure hybrid cloud experience.

Simplify Azure On-Premises and Improve Operational Efficiency

82% Reduction
in manual steps[1]

40% Reduction
in required maintenance[1]

Deliver Seamless Azure Experience

Fully engineered solution with software-driven automation

Accelerate Innovation

Optimized on-demand Azure Arc services coupled with flexible nodes configurations enable agile DevOps and deliver predictable application outcomes

The Microsoft Intelligent Data Platform

Data is a precious commodity for any organization. It has the power to identify and resolve weaknesses in business strategy, enhance customer relationships, and create market disrupting services. Cloud strategies have been instrumental in helping businesses to capture, retain, analyze, and gain valuable insights into their data.

Cloud approaches have provided businesses with the ability innovate faster with their data and has been instrumental in helping to build a responsive IT strategy. A hybrid cloud approach makes it possible to select the optimal location for your data. However, when data is spread across the Edge, on-premises, cloud and multiclouds, management can become complex. Microsoft Azure Arc-enabled data services on a validated Dell Integrated System for Microsoft Azure HCI delivers a consistent management experience—wherever your data lives.

The Microsoft Intelligent Data Platform seeks to allow companies generate predictive insights and govern all data regardless of location with a consistent management. As part of Microsoft's holistic approach, Azure Arc and Azure Stack HCI allows customers to bring the Azure cloud experience to Dell Integrated System.

Streamline the Azure multi-cloud experience

Microsoft's comprehensive Azure cloud strategy is designed to address the need for agile cloud-based IaaS requirements while also simplifying management, security and compliance of distributed IT assets regardless of it the location of the data or applications.

Dell Integrated Systems for Microsoft Azure Stack HCI, is a complete, fully engineered and tightly integrated infrastructure platform for on-premises deployments. Designed to streamline your Azure multicloud ecosystem and simplifying operations on-premises, Dell Azure Stack HCI lets you focus on accelerating innovation that fuels business.

Azure Stack HCI Broad offers broad configurations to help address unique requirements, making it a great building block for a SQL Server 2022 deployments. Whether customers need high volume of transactions, or higher storage footprints for larger OLAP systems, multiple options for caching and storage make both possible while being cost-effective.

The perfect platform for Microsoft's Intelligent Data Platform

Dell Azure Stack HCI lays the foundation for a modular Database-as-a-Service (DBaaS) for SQL Server. Dell documented and demonstrated its ease of use and flexibility as a DBaaS platform for addressing database management challenges in a white paper. As an all-in-one validated HCI system that includes full-stack life cycle management, native integration into Azure, and support Azure Arc on-demand services, it enables organizations to create modern cloud-native applications that deliver exceptional customer value.

SQL Server can provide insights on data wherever that data sits, and Azure Arc can help manage your SQL Server wherever it is located. However, where your data is located is also crucial to its security, performance and value. This is an area where Dell Technologies excels in providing the right solutions to help meet the disparate requirements of companies of all sizes. We have solutions for traditional SQL Server deployments running on Windows Server® and solutions for companies looking to embrace cloud-native concepts and deploying SQL Server in containers, orchestrated by Azure Kubernetes Services (AKS).

For enterprises that have decided to utilize Kubernetes for SQL Server deployment, many are looking to leverage Azure Arc–enabled data services and get a single, consistent experience across on-premises, multicloud and edge. One key difference between running SQL Server in containers and SQL Server Managed Instance is that, like Azure SQL instances in the public cloud, the version of SQL will always be current. Updates to your environment will take place automatically, ending the disruption of end-of-support inherent with a traditional, on-premises deployment. In Azure, storage and compute are provided by Microsoft with guaranteed service level agreements (SLAs) for performance, throughput and availability across each of the service tiers. With Azure Arc–enabled data services, you can use your desired Dell Technologies infrastructure to meet the needs of your application environment. The Dell Integrated System for Azure Stack HCI is designed to meet 99.9999% hardware availability[2] to meet your needs.
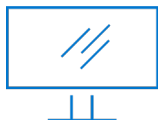
Dell's integrated system adds unique software-driven integrations with Azure, including Azure Arc, that simplify operations and data management across distributed locations, within the datacenter and across dispersed Edge locations. Customers can monitor the health of the Azure Stack HCI infrastructure, perform operational tasks such as on-premises cluster creation and expansion, enforce consistent compliance policies across locations, and remediate any drift from the defined policies in the event of non-compliance – all through the central Azure Arc control plane.. This means you can confidently deploy an enterprise-grade hybrid cloud for your entire Microsoft data estate on a platform that meets Microsoft's most exacting standards.

Dell Azure Stack HCI has your Microsoft data estate covered

All these benefits combined with flexible consumption models, and solution-level enterprise support and services expertise, distinguishes Dell's Integrated System from simply running Azure Stack HCI on validated nodes.

Designing and building the best solution for your data estate — from edge and core data centers to multiple clouds — requires a combination of the right expertise and infrastructure. Not the "one size fits all" approach of the past, but a consumable, flexible and scalable approach that builds on current investments while preparing you for a successful digital future. An approach that addresses data management, data placement and data security.

Microsoft and Dell Technologies have partnered for over 35 years to deliver solutions and services to support your needs today and move your business forward to tomorrow. Our joint solutions integrate best-in-class software, hardware and services in secure, innovative and scalable solutions that help you wherever you are in your data transformation journey.

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Microsoft Azure Stack
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