

Dell EMC Solutions for Microsoft Azure Stack HCI

A simple alternative for organizations looking to maximize their infrastructure investments, while still leaving open the option to leverage Azure alongside their HCI cluster when the time is right.



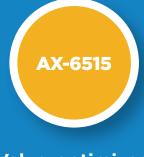
Choose the model that best suits your use case





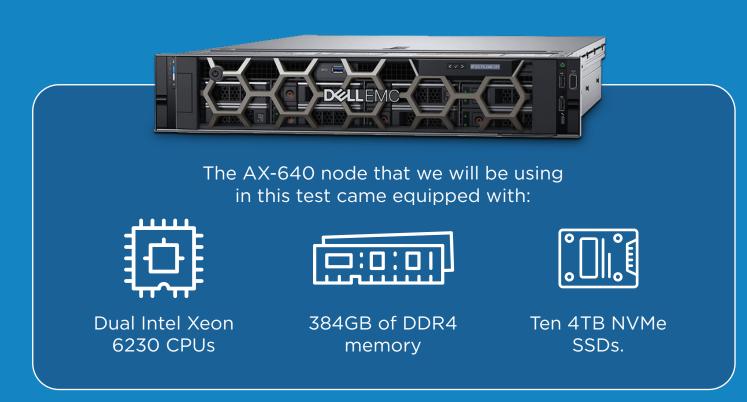


Storage capacity heavy workloads



Value-optimized system

THE AX-640 AX NODE CAN BE OUTFITTED TO DELIVER WHAT MAY BE THE FASTEST HCI NODE AVAILABLE ON THE MARKET.



2019 VMs running Windows Server 2019 balanced on our 2-node cluster Each VM was allocated 8 virtual CPUs and 60GB Each SQL Server instance was then given a 1,500

We configured a SQL Server performance test consisting of up to 8 SQL Server

gave us a database storage footprint ranging from 1.4TB with 4VMs up to 2.8TB with 8VMs. We used Quest's Benchmark Factory as the workload generator for this project, with 15,000 virtual users interacting with each VM.

scale TPC-C database where the database and log

files equaled 350GB in capacity per instance. This

host, in our failed node scenario we lowered the VM RAM allocation to 40GB to fit all 8VMs on a single host.

of RAM along with its storage footprint. With our

cluster being configured with 384GB of RAM per

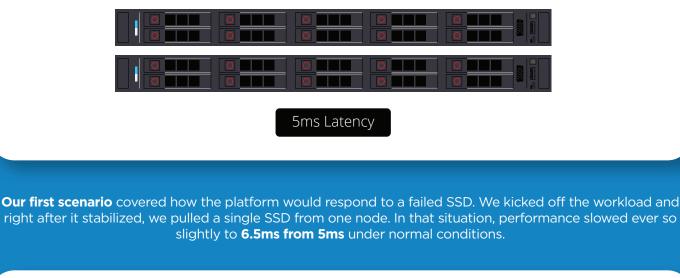
In our first test measuring the performance of 8VMs, 4 on each node, that figure increased to 5ms average.

TEST RESULTS

Non-degraded State

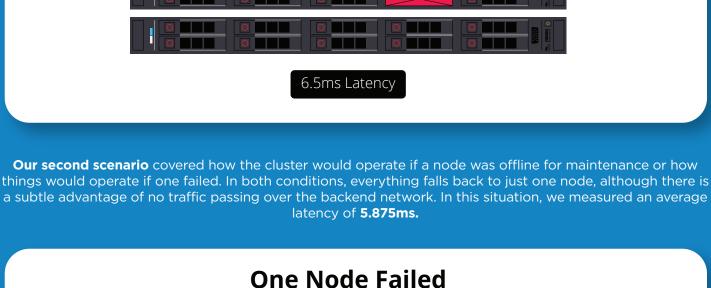
4 SQL VMs per node

8 SQL VMs total

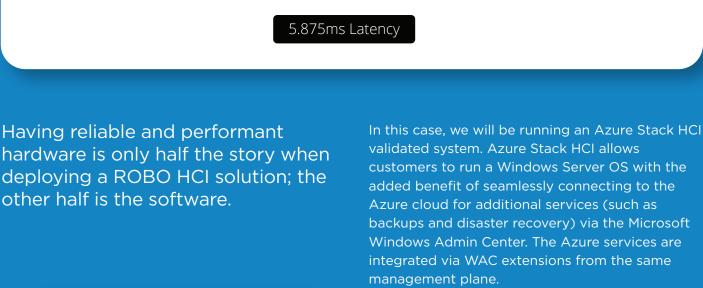


4 SQL VMs per node 8 SQL VMs total

1 SSD Failed on a Node



8 SQL VMs total 8 SQL VMs per node



DELLEMC op

Microsoft's WAC provides **HCI** management capabilities for Azure Stack HCI from the **Cluster Manager**

Dell EMC's unique LCM integration using the OpenManage Integration with WAC extends these capabilities by including the ability to execute cluster-aware BIOS, as well as firmware and driver updates for AX nodes. This allows Dell EMC to update nodes sequentially, thus eliminating downtime for workloads when updating an Azure Stack HCI cluster running on AX nodes in hybrid and edge scenarios by supporting the Dell EMC

online catalogs or the Dell EMC Repository

Manager (DRM) based offline catalog to ensure

the HCI is running in an optimized fashion with the

latest updates.



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Learn More About the Test