

Lenovo ThinkAgile MX Servers with Azure Stack HCI: A Winning Combination

Fact: Technology changes fast.

This makes optimizing your company's IT budget tricky. Not only are you planning for today, but also next week, next month, and next year. You've got to anticipate hardware capabilities, ever-evolving software applications and how they'll co-exist over time. You're looking for solutions with easy scalability, high-performance, and, most importantly, rock solid stability. All on budget!

RELAX.

Lenovo ThinkAgile MX for Azure Stack HCI has you covered.

**Smarter
technology
for all**

Lenovo

We know smarter software-defined datacenter solutions are the future of high-end data centers for businesses large and small.

We're teaming up with Microsoft to validate Azure Stack HCI on Lenovo ThinkAgile MX servers giving you the versatility to move from small, lightweight, highly cost effective solutions all the way up to incredible capacity and performance inside a single rack.



High-Performance



Azure Stack HCI gives benchmark-leading performance of 13.7 million IOPS¹. Lenovo recently achieved 902,952 Batch requests/sec running SQL Server 2019 database workloads on Azure Stack HCI².



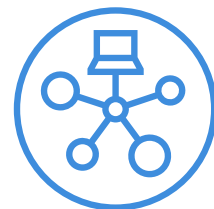
Azure Stack HCI features are built natively into Windows Server 2022 Datacenter edition which means they are engineered to perform well by design as opposed to bolt-on systems.



Lenovo ThinkAgile MX servers are validated through joint engineering and testing with Microsoft to help ensure maximum performance without degradation over time due to unforeseen firmware and driver issues.

ThinkAgile MX servers for Azure Stack HCI are designed for high-performance.

Reduce multi-vendor complexity and improve computing performance. Meet today's needs and position yourself for future growth.



Unlike other solutions, every node in Azure Stack HCI solutions are involved in reading and writing data. This creates a direct linear performance improvement as you scale out.



Azure Stack HCI's raw storage performance coupled with its high-performance networking as well as Hyper-V's speed and reliability make it ideal for SQL workloads.

Norwegian service provider consolidated 285,000 SQL Server databases from 8 racks to 3 racks on Lenovo ThinkAgile MX servers leveraging Azure Stack HCI³.

1. <https://techcommunity.microsoft.com/t5/Storage-at-Microsoft/The-new-HCI-industry-record-13-7-million-IOPS-with-Windows/ba-p/428314>

2. <https://lenovopress.com/sb0002.pdf>

3. <https://myignite.techcommunity.microsoft.com/sessions/82907?source=speakerdetail>

Life is complicated enough.

Lenovo Azure Stack HCI solutions simplify your datacenter by eliminating complexity.

LICENSING SIMPLICITY

Since all the features of Azure Stack HCI are built natively into Windows Server 2022 Datacenter edition, you have everything you need with one license.

SOLUTION SIMPLICITY

Azure Stack HCI is inherently less complicated than a system requiring third party software and hardware to manage and deploy.

MANAGEMENT SIMPLICITY

Windows Admin Center together with Lenovo XClarity simplify management while driving down costs. Windows Admin Center is a free download from Microsoft available here: www.microsoft.com/en-us/cloud-platform/windows-admin-center

DEPLOYMENT SIMPLICITY

New deployment tools built into Windows Admin Center help take the complexity out of many deployment tasks.

OPERATIONAL SIMPLICITY

Many hardware and software updates, repairs or even upgrades can be made without taking your system offline.

HYBRID CLOUD SIMPLICITY

You can use Azure Stack HCI alongside Azure cloud services in a hybrid cloud model based on your requirements.

Cost-Effective

Pressure on budget is always a challenge.

Happily, Lenovo ThinkAgile MX servers come at varying price points suited for budgets from small business to major enterprise. Even better, Lenovo Azure Stack HCI solutions have amazing savings built in.

Everything you need is covered under one license.

Azure Stack HCI is part of Windows Server 2022 Datacenter edition. There's no additional license. If you have Windows Server 2022 Datacenter edition and are licensed to use it, you have all the components you need to run Azure Stack HCI.

No additional bolt-on software, appliances or services to purchase.

You don't need to pay for additional third party software or appliances to make a complete solution. You just need a Lenovo ThinkAgile MX server with Windows Server 2022 Datacenter edition.

Downloadable management tools.

Windows Admin Center is a no-cost management tool from Microsoft. Lenovo's hardware management tool XClarity has deep integration with Windows Admin Center giving you single pane of glass management for both hardware and software without hurting your budget.

Security features are included.

Windows Server 2022 Datacenter edition includes advanced threat protection with an enhanced Windows Defender, shielded VMs, intrusion prevention and attack detection - to name just a few.

Free up time.

By consolidating compute, storage and network into a single familiar platform IT staff time can be freed up to focus on more strategic planning.

Discover the Core Components of Azure Stack HCI

1.

Storage Spaces Direct is the storage fabric solution built into Azure Stack HCI.

Considered a shared-nothing storage solution, each server or storage controller connects to one set of disks. High-performance, low latency networking (often Ethernet-based RDMA) keeps the data synced. The data is stored as a unified pool while read and write operations are distributed across all nodes. This maximizes performance and data availability.

2.

Software-defined networking (SDN) is a dynamic network architecture approach that allows for centrally controlled management.

It increases network flexibility and simplifies troubleshooting. As a true software-defined platform running on commodity hardware, Azure Stack HCI makes using this approach accessible and provides a scale-out platform that accommodates today's heterogeneous workloads.

3.

Hyper-V. On the market for over 10 years, Hyper-V has support for Windows containers, docker and Kubernetes.

With Hyper-V you have a wide array of Linux or Windows-based configuration choices. Hyper-V is the ideal platform for building your next generation solutions.



“The Lenovo SE350 has the perfect specs for Azure Stack HCI. Compact, connected, rugged.... This is the future of edge computing.”

– Cosmos Darwin, Microsoft Senior Program Manager



Meet Lenovo Azure Stack HCI Solutions: Configurations at Every Price Point

Every business needs a robust datacenter. We want to make that happen.

ThinkAgile MX Integrated Systems and Validated Nodes are built on industry-leading Lenovo ThinkSystem servers that feature enterprise-class reliability, management, and security. ThinkAgile MX servers each have several validated configurations to choose from so that you have the right option for your particular need. Each configuration has been engineered, tested and validated with Microsoft to help ensure ongoing reliability and performance.



Meet the ThinkSystem Families that Offer Validated Azure Stack HCI Solutions



ThinkSystem SR650

The Lenovo ThinkSystem SR650 is a 2-socket rack server designed for speed and expansion, with flexible storage and I/O, and ultra reliability for business-critical workloads.

- Up to 2 second-generation Intel® Xeon® Platinum processors
- Supports Intel® Optane™ DC Persistent Memory
- Next-generation 2U rack server
- Up to 9TB TruDDR4/24 DIMMs
- Lenovo AnyBay U.2/M.2/SSD/HDD drive support
- ThinkShield Security



ThinkSystem SR630

Built for versatility, the ThinkSystem SR630 Rack System combines a small footprint with large capacity. It is a versatile, highly reliable 1U 2P rack server is designed to handle most datacenter workloads.

- Up to 2 second-generation Intel® Xeon® Platinum processors
- Supports Intel® Optane™ DC Persistent Memory
- Up to 9TB TruDDR4 memory/24 DIMMs
- Lenovo AnyBay U.2/M.2/SSD/HDD drive support
- Lenovo ThinkShield Security



ThinkSystem SE350

The rugged SE350 can handle temperatures from 0° to 55°C, as well as tolerate locations with high-dust and vibration—such as construction site trailers and manufacturing floors. It can be deployed equally well in a traditional office or branch location due to its office-friendly acoustics. The half-width, short-depth, 1U SE350 can be installed almost anywhere: hung on a wall, stacked on a shelf, or mounted in a rack.

- Intel Xeon-D processor with up to 16 cores
- Up to 16TB of internal M.2 solid-state storage
- Up to 256GB of DDR4 RAM

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Need help choosing a Lenovo ThinkAgile MX server?

Want to know more about Azure Stack HCI?

Go to www.lenovo.com/AzureStackHCI.

