

LENOVO THINKAGILE HX SOLUTION FOR SAP APPLICATIONS

Hyper-Converged Infrastructure for SAP landscapes

Supports SAP S/4HANA® and SAP HANA® databases

[Enabling SAP HANA and SAP enterprise focused Applications in the Private Cloud](#)

The Lenovo ThinkAgile HX appliance and certified nodes are designed to help you simplify IT infrastructure, reduce costs, and accelerate time to value. These hyperconverged appliances from Lenovo combine industry-leading hyperconvergence software from Nutanix with Lenovo enterprise platforms.

The ThinkAgile HX delivers the industry's most feature-rich hyperconverged infrastructure to enterprise datacenters. Nutanix brings the benefits of web-scale technologies to enterprise applications through enterprise storage, data protection, infrastructure resilience, management and analytics, and security.

The ThinkAgile HX is simple to deploy. With compute, storage, and management co-located on a single node, the ThinkAgile HX enables you to dramatically simplify your infrastructure and pool your resources into a single virtual structure for more efficient utilization and management.

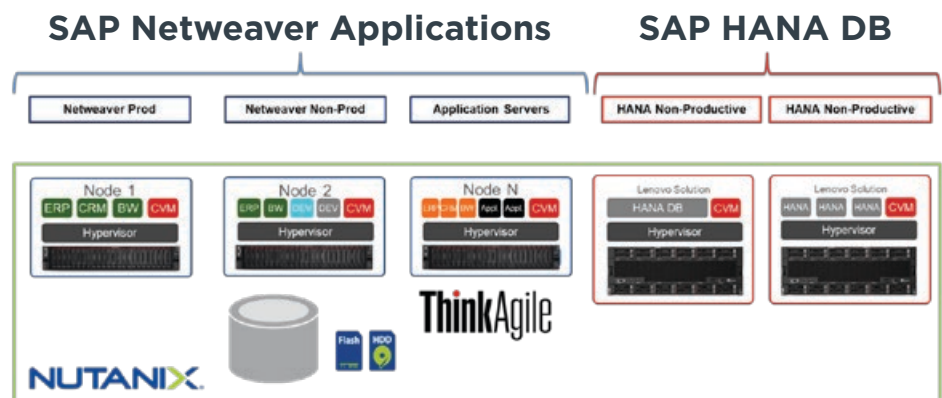
The ThinkAgile HX supports a rich suite of enterprise focused workloads including SAP S/4HANA, SAP HANA databases as well as other SAP enterprise applications. The ThinkAgile HX Series is designed to consolidate any application in a private cloud.

Lenovo's web-scale solutions incorporate powerful data protection and high availability capabilities for keeping SAP landscapes running and well protected. You can also quickly clone and deploy new high performance development, test and production environments without having to worry about copying data, which accelerates your overall development cycles.

Starting with as few as three nodes to keep your acquisition costs down, the ThinkAgile HX Series is capable of immense scalability as your SAP application needs grow.

Hyperconverged SAP

By converging storage and computing in a highly distributed architecture, the Lenovo ThinkAgile HX Solution for SAP applications eliminates the restrictions of traditional storage infrastructure. It delivers storage and compute performance and capacity for SAP NetWeaver® and SAP S/4HANA® applications as well as for SAP HANA databases.



HYPERCONVERGED HIGH PERFORMANCE DATABASES

A new economic model is enabled. Lenovo and Nutanix share a common vision of delivering simplified infrastructure that does not demand significant time and resources to maintain. This enables enterprises to focus on their core competencies and drive innovation, greater efficiency, and agility for their business, instead of managing their current complex infrastructure.

The Lenovo ThinkAgile HX Solution is simple to deploy. With compute, storage, and management co-located on a single node, the Lenovo ThinkAgile HX Series enables you to dramatically simplify your infrastructure and pool your resources into a single virtual structure for more efficient utilization and management. Plus, it scales rapidly to meet the growing needs of your business. Lenovo designs its systems with open standards, enabling easy integration with third-party partners for best-in-class offerings.

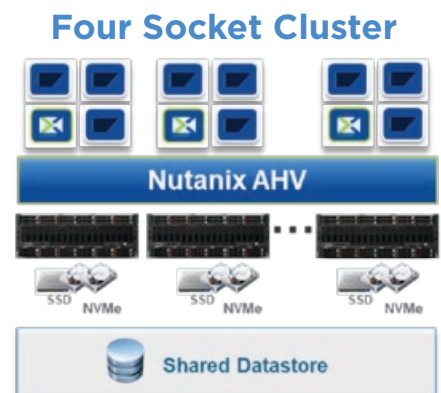
The Lenovo ThinkAgile HX Solution supports a rich suite of enterprise focused workloads including SAP HANA.

Scale SAP HANA databases

SAP applications are the ideal candidate for virtualization in a web-scale private cloud

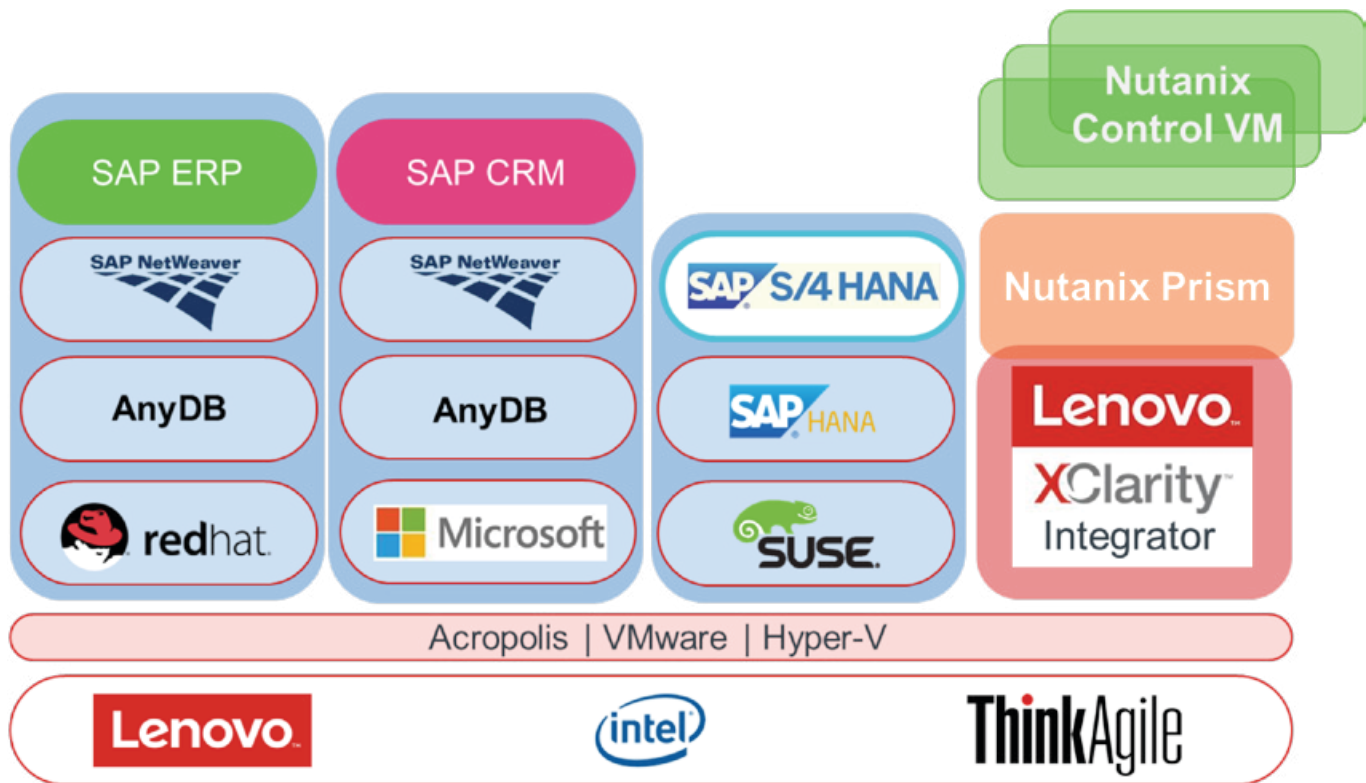
environment bringing benefits such as ability to handle rapid performance and data growth, consolidation of datacenter footprint, and predictable licensing costs. Whether running existing SAP NetWeaver based landscapes or deploying SAP HANA environments, the ThinkAgile HX Solution invisible infrastructure is the ideal certified solution for virtualized SAP and associated database landscapes. It brings the benefits and economics of web-scale technologies to SAP landscapes large and small.

With linear scaling, as well as high performance for both random read/write and sequential storage operations, a single ThinkAgile HX Solution hyper-converged system can simultaneously support transactional and analytical SAP workloads with terabytes of active data. By eliminating the need to overprovision storage in order to maintain long-term performance, IT teams can significantly reduce capital investment and physical footprint by as much as 80%.



Running SAP Applications Easily

Nutanix Acropolis Hypervisor is certified for SAP HANA databases and SAP NetWeaver applications and relational databases. It is the first hyperconverged infrastructure certified for both SAP HANA and the SAP NetWeaver technology platform. Based on this platform customers have a very high flexibility to run SAP HANA and any other SAP application or database in parallel on the same platform. Due to the fact the hypervisor allows very granular assignments of resources as needed by the application, the efficiency of the ThinkAgile HX Solution for SAP HANA is very high. On a single four-socket server customers can deploy up to three productive SAP HANA VMs addressing a maximum of 2.3TB of virtual memory.



Lenovo XClarity Integrator for Nutanix Prism

- Offers a fully integrated view of your ThinkAgile hardware via the Prism single pane of glass
- Provides the ability to discover, manage, and monitor Lenovo server hardware from Prism
- Speeds deployment of firmware updates and configuration patterns to Lenovo x86 rack servers and FlexSystem from the virtualization management tool
- Delivers non-disruptive server maintenance and reduces workload downtime by dynamically migrating workloads from affected hosts during rolling server updates or reboots
- Increases service level uptime and assurance in clustered environments during unplanned hardware events by dynamically triggering workload migration from impacted hosts when impending hardware failures are predicted

SAP HANA Requirements

- Productive SAP HANA databases run on multiples of a whole socket (1, 2 or 3)
- Up to three productive SAP HANA VMs with up to 768GB per socket are supported or one large SAP HANA VM with 2.3TB spanning over 3 sockets.
- The Nutanix control virtual machine (CVM) cannot run on a socket where SAP HANA runs
- All standard SAP HANA memory and CPU sizings¹ and restrictions apply
- when impending hardware failures are predicted

Model Name	ThinkAgile HX7820 Appliance for SAP HANA	ThinkAgile HX7821 Certified Node for SAP HANA
Form Factor	4U	
Processor	4x Intel Xeon Gold or Platinum processors, up to 205W	
Memory (TruDDR4 2400MHz)	384GB, 768GB, 1.2TB, 1.5TB, 2.3TB, 3TB	
Drive Bays	Up to 24 2.5-inch	
SAS SSD Options	12-24x 1.6TB, 1.92TB, 3.84TB SAS SSDs	
NVMe Options	2-4 x 1.6TB or 3.2TB* NVMe drives	
10GBASE-T Ports	2-8	
10GbE SFP+ Ports	2-8	
25GbE SFP28 Ports	2-4	
Hypervisors Preloaded and Supported	Nutanix Acropolis Hypervisor	
Systems Management	Hardware management via Lenovo XClarity or ThinkAgile XClarity Integrator for Nutanix, and software management via Nutanix Prism	
Software Licenses	Nutanix AOS Starter, Pro, or Ultimate license included SAP HANA license obtained separately	Nutanix Pro or Ultimate license obtained separately SAP HANA license obtained separately
Lenovo Deployment Services	Optional Lenovo Professional Services deployment of Nutanix AOS deployment, Lenovo Professional Services of SAP HANA onsite included	Optional Lenovo Professional Services deployment wof Nutanix AOS deployment optional, Optional Lenovo Professional Services of SAP HANA onsite
Warranty Support	• 24/7 Lenovo ThinkAgile Advantage SinglePoint of Support in available countries • Lenovo SAP Solution Support • Lenovo 3-year or 5-year limited hardware warranty	• 24/7 Lenovo ThinkAgile Advantage Single • Point of Support in available countries • Lenovo SAP Solution Support • Lenovo 3-year, 4-year, or 5-year limited hardware warranty

¹ For more information on sizing see sap.com/sizing.



ThinkAgile HX solution for SAP HANA

Why Lenovo

Lenovo is a leading provider of x86 servers for the data center with over 10,000 SAP HANA systems deployed. Featuring rack, tower, blade, dense and converged systems, the Lenovo server portfolio provides excellent performance, reliability and security. Lenovo also offers a full range of networking, storage, software, solutions, and comprehensive services supporting business needs throughout the IT lifecycle. With options for planning, deployment, and support, Lenovo offers expertise and services needed to deliver better service-level agreements and generate greater end-user satisfaction.

For More Information

To learn more about the Lenovo ThinkAgile HX Solution for SAP applications, contact your Lenovo sales representative or Business Partner and visit: www.lenovo.com/sap/hana

Lenovo

NUTANIX
YOUR ENTERPRISE CLOUD

SAP
Global
Partner

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