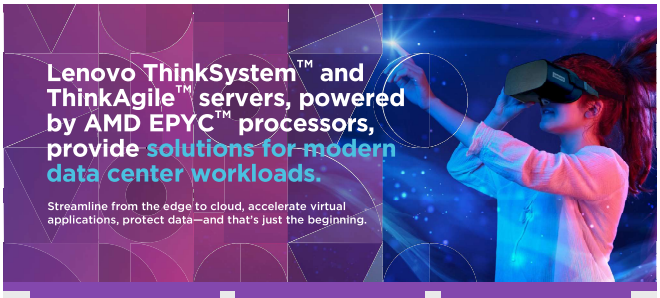
Lenovo | AMD



Lenovo ThinkSystem™ and ThinkAgile™ servers, powered by AMD EPYC™ processors, provide solutions for modern data center workloads.

Streamline from the edge to cloud, accelerate virtual applications, protect data—and that's just the beginning.

Remote Work

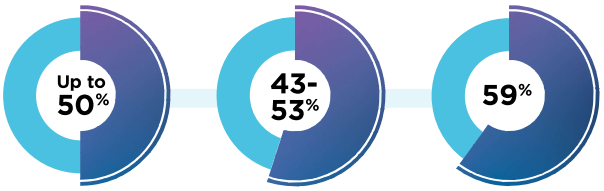
As remote work has become increasingly essential, Lenovo ThinkSystem servers—powered by AMD EPYC processors—allow you to deploy key workloads with peak efficiency, easily and powerfully.

Database

Experience excellent performance and scalability for Microsoft SQL Server zbased applications both for online transaction processing (OLTP) and data warehouse needs.

Data Analytics

Lenovo ThinkAgile VX Systems with AMD EPYC processors provide the scalability and speed necessary to ensure that data/analytic workloads operate at full enterprise efficiency.



fewer servers required for similar tasks[1]

lower energy and cooling costs[2]

lower costs per user per month[2]

AMD EPYC world-record performance CPUs[3]

2.3x better performance

AMD EPYC CPUs deliver 2.3x more VMware vSAN™ performance than a comparable competitive offering.[4]

Lenovo world-record performance servers

309
world records[5]

#1
consecutive years in x86 server reliability[7]

24%
better SPECpower results than Hewlett Packard[6]

12%
better SPECpower results than Dell[6]

Learn More →

Lenovo ThinkSystem servers have been ranked number one for reliability and uptime among all x86-based platforms for the last seven consecutive years, with less than 1% downtime throughout the year.[7]

What's more, Predictive Failure Analysis (PFA) enables downtime to be scheduled, as it warns of the impending failure of processors, memory, power-supply units (PSUs), system fans, adapter slots, hard-disk drives (HDDs), solid-state drives (SSDs), and voltage-regulator modules (VRMs).

Cost-Effective Energy Efficiency and a Greener World
Lenovo XClarity® Energy Manager thermal monitoring ensures lower heat output, reduced cooling needs, and energy savings. The automated technologies of AMD EPYC processors including workload-aware power management give premium performance per watt.[8]

With thanks to Prowess Consulting

Sources

Advanced Micro Devices: 5 REASONS WHY AMD EPYC™ CPUs MATTER FOR HYPERCONVERGED INFRASTRUCTURE (HCI) 2021 https://www.amd.com/system/files/documents/amd-q4-5-reasons-why.pdf. To support 1000 virtual desktop sessions, approximately 10 servers are required using two Intel® Xeon® Gold 5220 processors (36C) and only approximately five servers powered with two AMD EPYC 7F72 processors (48C)

[2]Prowess Consulting 2020: Processor Choice Matters for VDI Economics. https://www.amd.com/system/files/documents/Thx-Energy-Efficient-AMD-EPYC-Design.pdf (On VDI systems built with AMD EPYC processors, compared to systems with Intel® Xeon® processors)

[3]For a complete list of world records see http://amd.com/worldrecords. ROM-169

[4]4-node, 2x EPYC 7742 processor powered cluster with a score of 24.08@ 28 tiles on the VMmark® 3.1.1 benchmark using vSAN (https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/vmmark/2020-04-28-DellEMC-PowerEdge-R6525.pdf) delivers 2.27x more performance and 2.33x higher tile/VM workload capacity than the VMmark® 3.1.1 vSAN performance of a 4-node, 2x Intel Xeon Platinum 8268 processor powered cluster with a score of 10.63@12 tiles (https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/vmmark/2020-06-30-Supermicro-SYS-2029BT-HNR.pdf) as of 06/08/20. ROM-737

[5]As of November 1, 2021. Lenovo ThinkSystem Servers Continue to Lead the Industry in Performance and Customer Value. https://lenovopress.com/lp1145-lenovo-thinksystem-continues-to-lead-the-industry-in-performance

[6]The ThinkSystem SR665 SPECpower_ssj2008 achieved a record-breaking score of 23,505 overall ssj_ops/watt (as of May 17, 2021. http://spec.org/power_ssj2008/results/), 12% higher than Dell's 20,910 ssj_ops/watt (Dell Inc. PowerEdge R7525 SPECpower_ssj2008 result: http://spec.org/power_ssj2008/results/res2020q2/power_ssj2008-20200324-01021.html) and 24% higher than HPE's 18,845 ssj_ops/watt (Hewlett Packard Enterprise ProLiant DL325 Gen10 Plus SPECpower_ssj2008 result: http://spec.org/power_ssj2008/results/res2021q1/power_ssj2008-20210221-01066.html)

[7]Information Technology Intelligence Consulting (ITIC). ITIC 2020 Global Server Hardware, Server OS Reliability Report. February/March 2020. www.lenovo.com/us/en/resources/data-center-solutions/analyst-reports/itic-2020-global-server-reliability-report/

[8]Insight 64 document study. AMD EPYC: A Study in Energy Efficient CPU Design: https://www.amd.com/system/files/documents/the-energy-efficient-amd-epyc-whitepaper.pdf