Modern infrastructure for what's next

Power your enterprise with Lenovo ThinkSystem V4 servers running Intel® Xeon® 6 processors, built for today's workloads and tomorrow's AI-driven innovation.

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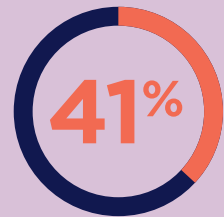Performance and
Efficiency Without
Compromise.

Resilient, AI-ready, cost-efficient infrastructure isn't optional, it's expected

IT infrastructure and operations leaders are being asked to do more than ever, including improving resilience, reducing risk, supporting AI initiatives, and keeping costs in check. In many organizations, this also means managing aging systems and limited staff. Infrastructure has shifted from isolated hardware to hybrid platforms, and that shift brings additional complexity.

41%

41% of enterprise infrastructure is already beyond end of life or support, while **38% is incompatible with current architectures**.[1] As demand for AI and automation grows, so does the pressure to modernize, despite limited internal resources and a widening skills gap.

To keep up, IT organizations need infrastructure that's flexible, powerful, secure, and ready to scale with changing business needs.

With a shared commitment to enterprise innovation, Lenovo and Intel offer server solutions engineered to meet the demands of modern digital business, enabling organizations to enhance resilience, control costs, and build a foundation for AI at scale.

That's the power of Lenovo with Intel Inside®.

Built for the demands of modern IT

Lenovo ThinkSystem V4 servers powered by **Intel® Xeon® 6 processors** are designed around the needs of today's IT organizations — balancing performance, security, and efficiency to help you move faster, operate smarter, and prepare for what's next.

1 Performance that drives results

Unlock breakthrough performance and reliability to accelerate outcomes across AI, enterprise, and hybrid workloads.

- ✅ Support modern enterprise applications and AI inferencing with powerful Intel® Xeon® 6 CPUs, which deliver 1.5x better performance in AI inference using one-third fewer cores compared to previous generations[2]

- ✅ Handle diverse workloads at scale across on-prem, colocation, or hybrid cloud environments

- ✅ Increase compute and memory bandwidth to power intensive applications

- ✅ Choose from versatile Lenovo ThinkSystem V4 server options optimized for different use cases

2 Built-in security and manageability

Gain peace of mind with infrastructure engineered for resilience, protection, and simplicity.

- ✅ Intel® Xeon® 6 helps you better protect platform, data, and code integrity with hardware-based security.

- ✅ Built-in hardware and firmware security with Root of Trust and system hardening

- ✅ Centralized, automated management with Lenovo XClarity and remote access

- ✅ Predictive failure analysis and proactive maintenance to minimize unplanned downtime

- ✅ Optional as-a-service model through Lenovo TruScale for scale without added capital expense

3 Efficiency with impact

With ThinkSystem V4 servers, lower TCO, improve density, and meet your sustainability goals with every deployment.

ThinkSystem V4 servers:

- ✅ Intel® Xeon® 6 offers power-efficient performance and sustainability features to help lower total cost of ownership.

- ✅ Consolidate legacy infrastructure with up to 4:1 rack density improvements

- ✅ Cut energy use by up to 53% and reduce operating costs

- ✅ Boost thermal efficiency with optional Lenovo Neptune liquid cooling

- ✅ Deploy faster and reduce waste with sustainable packaging and asset recovery services

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Choose the right-fit server for your workloads

Lenovo ThinkSystem V4 servers powered by Intel® Xeon® 6 processors offer flexible, future-ready options to meet a wide range of enterprise needs, from general-purpose compute to dense AI inferencing. Each system is built for high performance, manageability, and efficiency at scale so you can modernize with confidence.

ThinkSystem SR650 V4

Next-gen IT for innovation and scale

- ⊘ Supports up to two Intel® Xeon® 6 P-core CPUs with up to 86 cores and 350 W TDP
- ⊘ Up to 32 DDR5 RDIMMs (8 TB) at up to 6 400 MHz, with optional MRDIMMs and CXL support
- ⊘ Flexible storage with up to 40× 2.5″ NVMe bays or 32× E3.S NVMe drives
- ⊘ 10 PCIe Gen5 slots plus 2 OCP 3.0 for networking and expansion
- ⊘ Supports up to 10 single-width or 2 double-width GPUs
- ⊘ Compatible with Lenovo Neptune Core Module for advanced liquid cooling

ThinkSystem SR630 V4

Ultimate efficiency, speed, and performance
for cloud and scale-out

- ✓ Dual Intel® Xeon® 6 processors, including P-core and E-core support
- ✓ Compact form factor with support for up to 16× E3.S NVMe sor mixed 2.5"/3.5" drives
- ✓ 3 PCIe Gen5 slots plus 2 OCP 3.0 for efficient I/O
- ✓ Ideal for CSPs, telcos, and enterprises requiring high performance in limited space

ThinkSystem SR650a V4

AI-driven intelligence meets performance workloads

- ✓ Dual Intel® Xeon® 6 processors with up to 86 cores
- ✓ Supports up to 4 front-access double-width GPUs (including NVIDIA H100 NVL)
- ✓ 32 TruDDR5 DIMMs and E3.S NVMe bays to support high-performance AI processing
- ✓ Up to 14 PCIe Gen5 slots plus 2 OCP 3.0 for fast GPU interconnects
- ✓ Built for AI inferencing, S/MLM, VDI, and content delivery at scale
- ✓ Neptune-ready for improved thermal efficiency and power savings

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Powering 24/7 manufacturing with modern infrastructure

Artec Pneumatic is a leading Italian manufacturer of pneumatic components used in industrial automation systems. To meet growing demand and support its around-the-clock production, Artec needed to modernize its IT infrastructure for greater performance, reliability, and scalability.

> "We were delighted with how quick and easy it was to deploy the new HCI solution. Within a couple of hours, we had everything up and running. Today, we run our core systems across three Lenovo ThinkSystem SR650 V3 servers connected to a central Ceph storage platform."
>
> **Claudio Gallerani, CEO, Artec Pneumatic**

Nonstop reliability for nonstop production

With Lenovo ThinkSystem servers powered by Intel® Xeon® processors, Artec Pneumatic achieved uninterrupted 24/7 manufacturing, supporting round-the-clock operations with greater stability and faster response to production demands.

Performance built for Industry 4.0

The new infrastructure enables fast, data-driven decision-making and supports future AI and automation workloads, critical to Artec Pneumatic's smart manufacturing goals.

Scalable and efficient by design

Lenovo's modular server architecture and efficient system management help Artec Pneumatic reduce risk, streamline maintenance, and prepare for continued growth — with a future-ready foundation that scales alongside the business.

READ THE FULL CASE STUDY

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A foundation for transformation

With Lenovo ThinkSystem V4 servers powered by Intel® Xeon® 6 processors, you get more than just upgraded performance: You gain a reliable foundation for transformation, ready to support demanding enterprise workloads, accelerate AI adoption, and scale with your business. Built for efficiency, engineered for security, and backed by decades of innovation, this is infrastructure that works harder, so your IT team can focus on moving forward.

Optimized for the real world

Whether supporting Microsoft applications, managing enterprise databases, or handling AI workloads, Lenovo ThinkSystem V4 servers with Intel® Xeon® 6 processors are engineered to deliver the right-sized performance your workloads demand. Built-in efficiency helps reduce power usage and optimize resource allocation, so you can process and prepare data closer to where it's needed, without overbuilding your infrastructure.

Efficiency you can build on

Modern infrastructure helps lower TCO through increased density, smarter power usage, and advanced cooling options like Lenovo Neptune. And flexible, pay-as-you-go options through Lenovo TruScale can make it easy to scale in lockstep with your growth.

Confidence built in

Security, manageability, and reliability are designed into every layer of Lenovo and Intel infrastructure. Built for what's now and what's next: that's the power of Lenovo with Intel Inside®.

Contact your Lenovo representative to start planning your modernization strategy, or visit lenovo.com/intel-modernize-IT.

Sources
1 Gartner, "Infrastructure & Operations Leader Persona & Priorities," 2023
2 Intel, "Intel Unveils Leadership AI and Networking Solutions with Xeon 6 Processors," February 2025

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Performance and Efficiency Without Compromise.

Smarter technology for all

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