

Your AI journey in 5 steps



Where do you start? What are your next steps?

No matter if you're just beginning—or well on your way—it pays to remember these five key steps to ensure your AI journey is as powerful, productive, secure and efficient as possible.

1 Be clear on costs

As AI workloads scale, everything scales. Anticipate the resources and investment you'll need to drive AI, including such factors as:

Hardware

Software

In-house experts

External specialists

Security & compliance

2 Get the power you need

Find the right platform to support your AI development, testing, training and inference workloads.

CPUs - Many of the latest CPUs are AI-ready, offering efficiency advantages over GPUs for small- to mid-sized AI model development, testing, and inference..

GPUs - GPUs are typically ideal for developing and training larger models at speed and low overall total cost of ownership (TCO).

Embrace a flexible platform that offers all the benefits of CPUs with the ability to efficiently scale up to GPU power as needed.

Lenovo ThinkSystem servers with AMD EPYC™ processors offer:

100%
more cores supported than prior generation ThinkSystem servers.¹

up to 88%
better performance for virtualization applications than previous generation.²

Delivering design excellence, faster than ever

Lenovo ThinkSystem servers featuring AMD EPYC processors enabled a consultancy to run engineering simulations at phenomenal speeds.

[Read case study >](#)

3 Optimize for efficiency

Advance your cost and efficiency goals with updated infrastructure.

<p>Energy-efficient servers</p> <p>Lenovo V3 servers with AMD processors offer 80 PLUS Platinum or Titanium certified power supplies – up to 94% efficient.³</p>	<p>Modern cooling systems</p> <p>Combined Air and Lenovo Neptune® Liquid Cooling offers up to 40% reduced power consumption compared to traditional air-cooling.⁴</p>
<p>Predictive management tools</p> <p>XClarity One powered by AI Ops provides autonomous hardware operations & workload optimization for greater efficiency.⁵</p>	<p>Fewer servers</p> <p>Up to 3:1 server consolidation vs. older servers with Lenovo V3 servers running on AMD EPYC processors.⁶</p>

Do you have what it takes to power your AI workloads?

Make room for AI in your datacenter

Workload consolidation

- Leadership performance
- Exceptional efficiency
- Find the space, funds and energy for new AI workloads

Small/medium models

Mixed workloads and Enterprise AI

- Mixed workload deployments
- Small to medium models and classical ML
- Batch & small-scale real-time inference

Large AI models & training

Proven AI host CPU/GPU host

- High performance
- Extensive scalability
- Qualified/certified with advanced GPUs

Reduce energy consumption and free up time and resources with Lenovo's self-healing, self-optimizing infrastructure – and dedicated end-to-end expert support.

4 Secure from supply chain up

Performance and efficiency are nothing without security.

Cybersecurity and AI are the top two priorities for CIOs.⁷

The industry's most secure servers

Lenovo servers have been rated the most secure x86 servers in the industry for the last five years.⁸

- Lenovo ThinkShield provides protection at every level, including AI for threat detection and response.
- Lenovo ThinkShield security capabilities are enhanced with AMD Infinity Guard on ThinkSystem servers using AMD EPYC processors.⁹
- Designed to be highly resistant to today's sophisticated attacks, AMD Infinity Guard delivers a powerful set of modern security features to help protect sensitive data, avoid downtime, and reduce resource drain.

And an ultra-secure supply chain

Lenovo's supply chain ranks in the top 10 in the world, across all industries, according to Gartner.¹⁰

Growing market share with new capabilities

Enabling a state-of-the-art surveillance company to offer market leading security with Lenovo servers featuring AMD EPYC processors.

[Read case study >](#)

5 Focus on what's next

Organizations with strong cultures are more likely to lead the way in innovation and meet emerging customer demand.¹¹

Stay up-to-date

Regularly upgrade AI hardware and software, and partner with a trusted managed service provider to take care of routine tasks and free up your team to find those all-important little improvements – and the next big thing.

Build with tomorrow in mind

Purpose-built, future-proofed

Together, Lenovo and AMD provide datacenters with outstanding:

Performance

Security Features

Reliability

Efficiency

Over 150 benchmarking world records.¹²

Lenovo's AI solutions, powered by AMD EPYC processors, are specially designed to handle intensive AI workloads while keeping energy use low and costs manageable. Together, we're empowering businesses to architect their AI vision with a solid foundation of cutting-edge infrastructure and expert guidance – making today's investments ready for tomorrow's innovations.

[Learn More](#)

¹Lenovo, "Lenovo ThinkSystem SR665 V3 Server Product Guide," September 2024.
²VMmark® 3.11 results, as of October 18, 2023. See <https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/vmmark/2021-05-04-Lenovo-ThinkSystem-SR665.pdf> for further details. VMware® and VMmark® are trademarks or registered trademarks of VMware, Inc. VMware VMmark is a product of VMware, Inc.
³ClearResult, "What does Bronze, Silver, Gold, Platinum, and Titanium PSU (power supply units) rating mean?" 2024.
⁴<https://news.lenovo.com/pressroom/press-releases/lenovo-delivers-next-gen-of-intel-based-infrastructure-solutions-to-simplify-ai-journey/>
⁵<https://news.lenovo.com/pressroom/press-releases/lenovo-delivers-next-gen-of-intel-based-infrastructure-solutions-to-simplify-ai-journey/>
⁶Claim: "Lenovo V3 servers with 4th generation AMD EPYC™ processors offer up to 3:1 server consolidation over older servers."
...or "Achieve 3:1 server consolidation" or "ThinkSystem V3 servers with 4th generation AMD EPYC processors make 3:1 server consolidation possible for virtualized workloads when compared with second-generation AMD EPYC processors." Footnote: VMmark 3.1x results, as of 10/20/23. Two Lenovo ThinkSystem SR665 V3 servers, each with two AMD EPYC 9654 processors, scored 40.66 @ 42 tiles. See <https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/vmmark/2024-06-13-Lenovo-ThinkSystem-SR665V3.pdf> for further details. Two HPE servers, each with two AMD EPYC 7702 processors, scored 12.78 @ 14 tiles. See <https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/vmmark/2019-08-07-HPE-ProLiant-DL385Gen10.pdf> for further details. To find out more about VMmark, visit <https://www.vmware.com/products/vmmark.html>. VMware® and VMmark® are trademarks or registered trademarks of VMware, Inc. VMware VMmark is a product of VMware, Inc.
⁷Lenovo, "Inside the Tornado: Lenovo Global CIO Report 2024," April 2024.
⁸ITIC, "ITIC 2023 Global Server HW, Server OS Reliability Report," September 2023.
⁹AMD Infinity Guard features vary by EPYC™ Processor generations and/or series. Infinity Guard security features must be enabled by server OEMs and/or Cloud Service Providers to operate. Check with your OEM or provider to confirm support of these features. Learn more about Infinity Guard at <https://www.amd.com/en/technologies/infinity-guard>. GD-183A.
¹⁰Lenovo, "Lenovo ranks 10th in the Gartner® Supply Chain Top 25 for 2024 report," May 2024.
¹¹McKinsey, "How innovative companies leverage tech to outperform," December 2023.
¹²AMD, "AMD EPYC™ Processor World Records," September 2024.

© 2025 Lenovo. All rights reserved. Lenovo and the Lenovo logo are trademarks of Lenovo. AMD, the AMD Arrow logo, AMD EPYC, and combinations thereof are trademarks of Advanced Micro Devices, Inc. All other trademarks are the property of their respective owners.