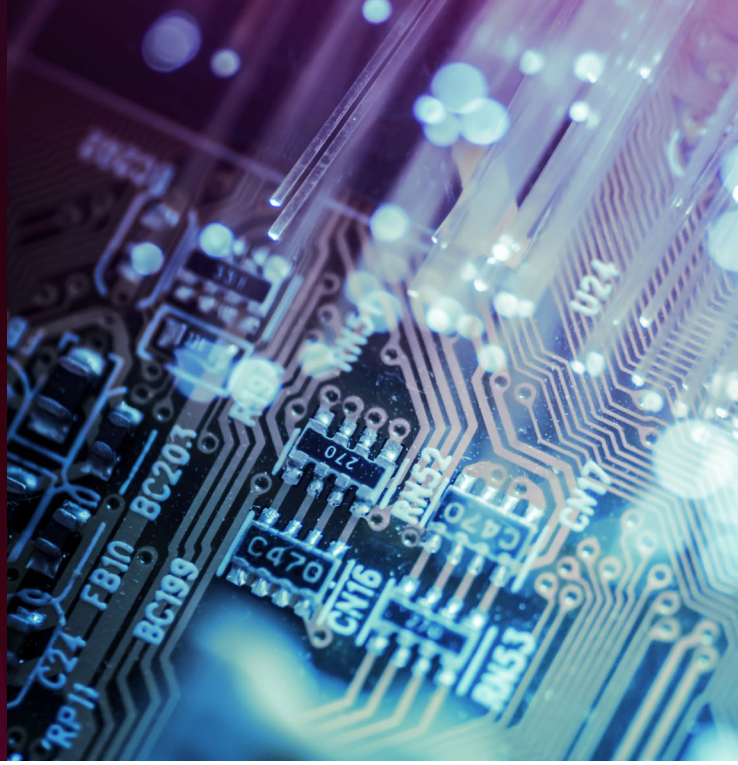
Lenovo GPU Advanced Services

Unleash new innovation from your AI infrastructure



With the increased use of machine learning and AI-powered applications, today's demanding workloads require advanced GPU technology in the data center. GPUs are ideal for tasks like training deep neural networks for computer vision, NLP, and generative AI, but that's only part of the story. GPUs are being leveraged for a wide range of purposes, including:

Graphics rendering and visualization — real-time rendering for games, animation, VR, product design, architecture, and more

Video processing and streaming — high-resolution encoding/decoding, live broadcasts, and streaming platforms

Cryptocurrency mining and blockchain — proof-of-work computations, smart contract execution, and decentralized finance

Data analytics and processing — accelerating big data tasks, real-time analytics for financial services, and customer behavior analysis

Edge computing and IoT — autonomous vehicles, smart cameras, and industrial IoT

Creative workflows — accelerating tasks like photo editing, music production, and AI-driven content creation

With great power comes great complexity

Simply installing more GPUs in the data center isn't enough to effectively run complex workloads. Architecting and designing an effective GPU use case requires a deep understanding not only of the technology itself, but also how workloads perform under differing hardware and software configurations.

Without a strategic approach for planning, configuration, and ongoing management, organizations risk underutilized resources, excessive latency, and suboptimal outcomes. But many organizations lack the in-house expertise required for these complex tasks, and they are turning to managed services solutions to help maximize the effectiveness of GPU resources.

1,000x
GPU AI performance has increased over the past decade[1]

Smarter technology for all

Lenovo

Expertise to optimize your GPU-intensive workloads

Lenovo GPU Advanced Services includes a set of three modular, scalable solutions designed to optimize the performance of GPU-intensive workloads in the data center.

GPU Plan and Design Services

- **Workload assessment**
- **Workload deployment**
- **Solution sizing**
- **Technology selection**
- **High-level architecture**

GPU Configuration Services

- **GPU configuration**
- **Low-level architecture reference doc and detailed deployment guide**
- **Knowledge transfer**

GPU Managed Services

- **L1 support for GPUs in high-capacity servers and NVIDIA AI Enterprise software (if applicable)**
- **GPU performance tuning**
- **Logging, monitoring, and alerting**
- **Maintenance activities**
- **Backup and restore of the management software**

Build a solid plan for success with a trusted, experienced partner

With Lenovo GPU Plan and Design Services, our experienced, industry-certified experts assess your workload types and deployment options. Then we recommend the right solution sizing (server model, CPU core, memory, storage, networking, licensing, etc.) along with the best-fit tools, frameworks, and platforms to optimize GPU performance in your processing environment.

Our expertise can help to eliminate rounds of trial and error, so you get the architecture and design right from the very beginning, accelerating the time to value of GPU investments.

- Reduce risk by leveraging Lenovo expertise
- Work with a trusted partner for the critical task of optimizing GPU utilization for high-performance workloads in your data center
- Optimized configuration of GPU resources from the day you go live

Accelerate time to value and increase GPU performance for better outcomes

With **Lenovo GPU Configuration Services**, our experts help you build a solid AI infrastructure stack that includes a low-level architecture reference document and detailed deployment guide covering:

- **Operating system**
- **Kubernetes**
- **GPU configuration**
- **DDN storage configuration**

Our deep relationship with NVIDIA means we can fine-tune GPU performance to precisely match your workload requirements and set up monitoring and alerting metrics. We'll also ensure your team is prepared with the skills and knowledge it needs for the road ahead.

- Overcome skills gaps and talent shortages to accelerate time to market and get the most out of your GPU investment
- Tune GPU performance for your most demanding workloads
- Uplevel your team with knowledge transfer from Lenovo experts
- Enable scalable deployment of Lenovo Hybrid AI 285 configurations, from a single node to multi-node, with customizable AI software stack and services

+30%

Tune GPU workloads for maximum efficiency, boosting performance up to 30% compared to manual setups.

Stay future-focused with optimal performance for your GPU infrastructure today and tomorrow

As AI and GPU-intensive workloads evolve, the infrastructure supporting them must be monitored carefully to ensure optimal performance. Lenovo GPU Managed Services delivers ongoing lifecycle management with L1 support for NVIDIA GPUs and NVIDIA AI Enterprise software (if applicable).

We also provide vulnerability patching and ongoing GPU performance monitoring and tuning with logging and alerts. Maintenance includes firmware and vulnerability patching for GPUs as well as backup/restore of GPU configuration data.

- Get support that scales seamlessly as your organization grows
- Gain greater visibility into ongoing GPU performance
- Stay ahead of risks with vulnerability patching
- Free up your IT team to focus on innovation

Real-time monitoring ensures optimal performance and resolves issues quickly.

Smarter technology for all

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New AI-powered innovation awaits

Today's advanced workloads demand maximum performance and efficiency from GPU resources. Lenovo can help your organization ensure your infrastructure is running at peak efficiency.

From planning architecture for workload agility to advanced configuration and ongoing monitoring, **Lenovo GPU Advanced Services** provides the modular, scalable support your organization needs to maximize the value of your GPU investments and drive outstanding data center performance.

Contact your Lenovo representative today to learn more.

#1
Top-ranked supercomputer provider for seven consecutive years[2]

#1
in x86 security for six consecutive years[3]

#1
in x86 server reliability for 11 consecutive years[3]

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Sources
1 NVIDIA benchmarks
2 TOP500.org, "Top500.org June 2025 rankings," June 2025
3 "Information Technology Intelligence Consulting," ITIC 2024 "Global Server Hardware, Server OS Reliability Report," November 2024