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Enterprise Strategy Group | Getting to the bigger truth.™

Modernize Compute for an AI-driven Future with Dell Servers and NVIDIA

The continued evolution and adoption of AI applications is putting pressure on IT. They recognize that force-fitting legacy hardware with a powerful GPU is simply not enough to satisfy modern workload and stakeholder requirements. This is compelling IT to look to a modern compute platform that can better enable organizations to democratize and scale AI.

AI Adoption and Increased Spending

Businesses continue to emphasize the importance of AI adoption as a game changer for modern businesses.

We currently have AI/ML project solutions in production with specialized infrastructure to handle our production AI/ML initiatives,

39%

We are currently in the proof-of-concept (POC) stage with AI/ML projects, none are currently in production,

15%

62%

of organizations plan to increase their YoY spending on AI, including investments in people, process, and technology.

Overcoming AI Challenges

Organizations continue to grapple with legacy infrastructure challenges. Traditional CPU and commodity GPU components are simply unable to support the unique performance demands required by the diverse workloads found throughout the AI lifecycle.

NEARLY 1 IN 3

organizations state that one of their greatest barriers to AI success is the need for better IT infrastructure capabilities.

86%

of organizations identified **at least one of the following areas as a weak link in their AI infrastructure stack:**

- GPU processing
- CPU processing
- Data storage
- Networking
- Resource sharing
- Integrated development environments

The Most Important Infrastructure Considerations to Support AI

As businesses look for a fast AI onramp that balances simplicity, performance, scale, reliability, and price, IT is in search of a compute platform that can enable organizations to effectively and optimally scale their AI environments.

Most important infrastructure considerations to support all aspects of the AI data pipeline:

Transforming AI Compute with Dell and NVIDIA

To meet the accelerated computing needs of modern AI applications and workloads, NVIDIA-Certified Dell Technologies PowerEdge servers deliver the infrastructure needed to scale AI with tightly integrated NVIDIA technology such as powerful GPUs and the NVIDIA AI Enterprise software suite.

Transforming outcomes with modern, automated compute:

- Full-featured enterprise servers for AI initiatives
- Massive compute power for the most complex and demanding AI applications
- Flexibility of powerful CPU & GPU accelerators sized to application requirements
- Support for more end-users, enabling them to analyze data faster
- Thermal innovations that enable air-cooled operations with lower TCO

The Bigger Truth

As IT looks to ensure the entire organization has access to support the desired scale of AI throughout the business, there is proving to be an increased need for a reliable infrastructure that is tightly integrated with next-generation components. With proven technology and seamless integration, Dell and NVIDIA are aligned to customers wherever they are in their AI journeys by providing a robust solution that delivers unprecedented performance and ultra-low latency for all steps of the AI pipeline.

LEARN MORE

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Sources:
ESG Complete Survey Results, Supporting AI/ML Initiatives with a Modern Infrastructure Stack, May 2021.
ESG Research Report, 2022 Technology Spending Intentions Survey, November 2021.