

AI Platform Implementation

Overcome AI solution complexity to speed value creation



The transformative power of AI and generative AI calls for swift action. Many organizations struggle with outdated IT infrastructures, inefficient operating models, and widening skills gaps, while the increasing demands of AI workloads create significant complexity. Technical expertise is critical to implement and integrate technology in a way that doesn't compromise speed, cost-efficiency, and scalability.

Achieving tailored, secure and reliable solutions that meet use case and business objectives is possible through trusted service providers. By quickly overcoming these challenges your organization will unlock AI's full potential, driving measurable value and long-term success.

92%

of organizations expect the percentage of employees with access to AI platform to increase over the next year¹

50%

lack confidence in their ability to research, select, deploy & manage AI solutions to meet business requirements²

84%

of organizations prefer to outsource/partner with a services provider to implement AI / GenAI solutions³



Dell Services address the challenges of designing, implementing and operating AI solutions for enhanced performance, scalability and efficiency. Rely on experts to evaluate your needs and deliver the right solutions.

- ✓ Streamlined operations
- ✓ Improved adoption
- ✓ Maximized ROI
- ✓ Flexibility to scale

Implementation complexity

- Lack of clarity on the right AI solution
- Technical skills gaps for implementation
- Integration into existing workflows
- Ability to scale and continuously improve
- Uncertainty around investments



Effects on ROI

- Mis-aligned business outcomes
- Delayed value creation
- Operational inefficiency
- Slow adoption and competitive setbacks
- Missed opportunities for growth

Accelerate time to value of cost-effective on-prem solutions

- ✓ Tailored to business needs
- ✓ Optimized for performance
- ✓ Maximized for scale
- ✓ Improved adoption & utilization
- ✓ Streamlined operations via orchestration & automation
- ✓ Enhanced outputs from integrated data
- ✓ Maximized outcomes from open ecosystem expertise

Dell Services experts help you overcome implementation complexity and achieve AI solution excellence. From infrastructure setup and platform selection, integration and optimization to operational efficiency with room to scale.

Focus Areas		
Use Cases		
Application Infrastructure	Training Frameworks	Inference
	Foundational Models / Model Training	
	MLOps / LLMOps	
Software Infrastructure	Workload Manager	
	Driver / Compiler / Toolchain	
	Operating Systems	
	Deployment Tools	
Hardware Infrastructure	Infrastructure from device to data center Dell compute, storage and networking	
		Partner GPUs

86%

faster time to value via turnkey, full-stack solutions with services⁴



Design & Plan

- Identify AI usage patterns, GPU/network optimization strategy, AI stack components for vendor choice, performance considerations, etc.
- Review data readiness & compliance needs
- Comprehensive evaluation of data center readiness for AI capabilities
- Ensure solutions align to objectives and can be easily scaled for production and multiple use cases
- Workshop to define specific integration needs



Deploy Infrastructure

- Factory rack build & integration
- Inter-rack connectivity & cabling between GPU racks & switches
- Power management & cooling system connectivity (liquid or air-cooled)
- Cluster build & full rack testing & validation
- Network fabric configuration & testing
- Acceptance testing of entire cluster (HPL, NCCL, etc.)
- Knowledge transfer on deployed hardware



Implement Platform

- Implement & configure selected software stack
- Implement & demonstrate inferencing server with pre-trained LLM
 - Create example model training (fine-tuning) workload to demonstrate operation of the environment
 - Provide additional tooling/configurations based on desired outcomes
 - Test scripts to demonstrate functionality
- AI platform adoption plan



Adopt & Scale

- Integrate with storage, observability & logging platforms; improved system performance with monitoring to enable optimal GPU allocation
- Develop operational procedures & workflows in support of improved production operations
- Advance development with containerized tooling, model tuning & troubleshooting
- Up-level skills with subject matter expertise for scaling AI workloads
- Improve utilization with dedicated resident experts
- Streamline operations with fully managed solutions

Day 0

Day 1

Day 2+

Not sure where to start? Consider an [Accelerator Workshop](#) or use case pilot to quickly get started, talk to a Dell representative today to learn more

1.ESG, "There's no time to waste: Confidently moving ahead with Enterprise AI, Mike Leone, November 2024

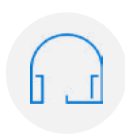
2.ESG, "The AI Maturity Playbook: Driving Business Impact and Innovation", Mike Leone, commissioned by Dell Technologies, actual results may vary

3.A commissioned study conducted by Forrester Consulting on behalf of Dell Services, September 2024

4.Estimate based on Dell analysis in May 2024 comparing time to set up a two-node Kubernetes® cluster for a general-purpose LLM using automated scripts vs deploying a common design manually. Setup time includes base installation only. Actual setup time will vary depending on solution configuration



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