

ProDeploy Flex for AI Infrastructure

Ignite Innovation and Accelerate AI Success



Fast-Track Your AI Infrastructure Deployment

Dell ProDeploy Flex for AI Infrastructure Deployment simplifies the process of moving from strategy to production-ready AI infrastructure. IT teams can achieve a faster, secure, more predictable deployment while minimizing risks. Instead of managing the assembly of AI servers, storage, and networking components individually, Dell delivers a streamlined deployment experience. This includes preparing the data center, building and integrating AI rack solutions, establishing high-performance network connections, and validating the cluster, ensuring it's ready to handle complex workloads.

ProDeploy Flex Drives AI Success

AI Infrastructure Readiness

Our experts validate that your data center can support AI infrastructure before racks arrive onsite. The result is a readiness report with specific findings and recommendations that can be addressed before deployment, reducing project delays and rework.

Analyze capacity: Confirm power and cooling readiness for dense AI servers and future expansion.

Review layout: Verify rack elevations and space constraints to ensure safe, efficient installation of AI equipment.

Plan connectivity: Map cable routing and labeling for inter-rack connectivity to simplify ongoing network management.

Factory Rack Integration

We build your AI infrastructure in the factory using proven methods for Integrated Rack Scalable Systems and XE AI servers. Racks are shipped as integrated units and placed at your site, where our experts complete final power connections, inter-rack cabling, cluster building, networking and node-level checks.

Install hardware: Servers, storage, switches, PDUs, and patch panels are installed and initially configured (RAID, BIOS, OS images).

Complete cabling: In-rack cabling uses Dell-standard components optimized for airflow, serviceability, and signal integrity.

Performance testing: Rack-level testing ensures devices power up and are network-reachable before shipping.

Key Benefits

Faster time to production

Move from hardware delivery to a validated AI cluster in days instead of weeks.

Lower deployment risk

Power, cooling, rack spacing, and cabling paths are ready before AI infrastructure arrives.

Improved reliability and performance

Infrastructure is deployed correctly the first time, minimizing errors and downtime.

Efficient use of internal resources

Dell experts manage planning, physical build, and configuration so your team can stay focused on critical tasks.

Enhanced scalability

Dell ensures infrastructure is built to support current needs and future growth, adapting as your business evolves.

Connect High-Performance AI Networking and Inter-Rack Cabling

ProDeploy Flex Inter-Rack Cabling service connects AI racks into a complete cluster fabric. This work prevents misconfigurations and ensures the network is prepared to deliver consistent throughput and latency for production workloads.

Implement cabling: Inter-rack cabling for compute, storage, and networking is installed based on your reference architecture.

Apply labeling: Clear labeling and structured routing make operations, troubleshooting, and capacity expansions easier to manage.

Verify connectivity: End-to-end fabric connectivity is verified to ensure all AI components are correctly connected before cluster configuration.

Configure and Validate the AI Cluster

ProDeploy Flex Cluster Build service focuses on logical configuration, turning deployed hardware into a functioning AI cluster. You receive a documented and validated AI infrastructure that provides a stable foundation for AI applications and data platforms.

Configure management: Setup of cluster management nodes, orchestration services, and control-plane components.

Integrate fabrics: Application of agreed switch configurations and verification of host connectivity for all nodes.

Run acceptance tests: Validation of node health, network connectivity, and overall cluster readiness for production.

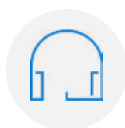
Real-World Applications for AI Success

Use Case	Description
Enterprise AI and Analytics	Deploy GPU-accelerated clusters that support machine learning, analytics, and large-scale data processing with predictable performance.
AI-Ready Private Clouds	Establish standard patterns for AI infrastructure deployment across multiple sites to scale AI factories and maintain consistent security.
Cluster Expansion	Easily add AI racks, storage, and networking capacity while retaining consistent cabling and layouts to protect investments and simplify growth.
Mission-Critical Workloads	Use validated deployment practices for power, cooling, and fabric design appropriate for industries like finance, life sciences, and research.

Organizations need a reliable partner with the expertise, proven methods, scalability, and accountability. No matter where you are in your AI journey, Dell delivers.



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