Cyber Resilient Data Protection for AI Workloads

Protect and secure your AI workloads against cyber attacks and data loss with Dell PowerProtect data protection.

Why PowerProtect data protection for AI workloads

Trusted data protection

Benefit from market-leading solutions that are modern, simple, and resilient.

Open Rest API architecture

Gain flexibility, efficiency, and control over data protection workflows.

Dell AI Factory supported

Protect AI faster with proven reference designs.

Gain the confidence that you can recover from the unexpected.

In today's data-driven world, AI is not just a luxury; it's a necessity for staying competitive. However, as AI integrates deeper into business operations, it brings unique challenges in data protection.

Dell PowerProtect data protection addresses these challenges head-on, offering comprehensive solutions to keep your AI data secure and your business running smoothly.

The critical need for data protection

According to the Dell Technologies Generative AI Pulse Survey, 76% of IT leaders believe AI will have a significant, if not transformative, impact on their organizations[1]. The increased reliance on AI also means a surge in the volume and value of data generated.

Nearly 90% of organizations acknowledge the need for data protection in AI applications, yet 65% are backing up less than half of their total AI data[2]. This gap underscores the urgent need for robust data protection strategies from the planning stages to deployment.

Why AI Workloads need specialized protection

AI workloads are as critical as any other business function but are highly susceptible to cyber threats. Common risks include data poisoning, ransomware, privacy breaches, and social engineering. The consumption of Generative AI (GenAI) applications, like large language models (LLMs), introduces new attack surfaces, making data protection more crucial than ever.

Comprehensive data protection for AI workloads

Dell PowerProtect data protection offers a modern, simple and resilient approach to securing AI workloads. From data sources to AI models, and from inquiries to responses, every component of your AI infrastructure will be protected.

Here's how Dell can help:

Protect everything

Data sources: Secure unstructured data, structured data, and data lakes.
AI models: Safeguard training data, models, configurations, and parameters.
Inquiries and responses: Maintain records for compliance and long-term retention.

Deliver better outcomes

Cyber resiliency: Protect and recover from data loss or attacks.
Compliance: Ensure the long-term retention of sensitive data.
Legal protection: Reduce legal risks related to IP, PII, and copyrights.
Workload Optimization: Maintain and restore AI workload states.
Dataset Reconstruction: Reconstruct data sets from multiple sources.

Accelerate your AI innovation with the Dell AI Factory

The Dell AI Factory is your on-ramp to AI innovation, ensuring successful and consistent deployment at any scale.

The Dell Solution for AI Data Protection—an integral component of the Dell AI Factory infrastructure portfolio—provides organizations with a blueprint for integrating cyber resilient data protection into their AI frameworks. It leverages proven performance, efficiency, and scalability to secure AI workloads and is based on the Dell Scalable Architecture for retrieval-augmented generation (RAG) with NVIDIA Microservices.

How Dell protects AI workloads:

The PowerProtect portfolio offers market-leading solutions for protecting AI workloads, including:

PowerProtect Data Manager

- **Cloud-ready architecture**: Integration with multicloud environments.
- **Cyber resilient**: Native immutability and orchestrated recovery.
- **Robust protection**: Tailored for modern workloads, especially Kubernetes.

PowerProtect Data Domain

- **Performance and efficiency**: Optimized for traditional and modern workloads.
- **Security and resilience**: Multiple layers of Zero Trust security to ensure data immutability and integrity.

PowerProtect Cyber Recovery

- **Isolate and protect**: Secure critical data from ransomware and sophisticated threats.
- **Machine learning**: Identify suspicious activity and enable recovery of known good data.

Backed by the power of Dell Technologies

Dell offers one-stop convenience to PowerProtect customers, with leading end-to-end solutions and ecosystem partners, global services and secure supply chain and a strong channel and direct salesforce.

---

[1]Dell Technologies Generative AI Pulse Survey September 2023
[2]Enterprise Strategy Group Reinventing Backup and Recovery with AI and ML

Learn more about
Data Protection for AI

Contact a Dell Technologies Expert

DELLTechnologies