Why a unified data platform is the key to AI success

To unlock transformative insights, artificial intelligence applications must have access to data wherever it resides

Cecile Kellam
NetApp

Dani Conner
NetApp

Data has become a core component of all government missions. Decisions related to every aspect of agencies' operations—including military readiness, health care, transportation and digital services—rely on vast amounts of relevant, reliable data.

The move to artificial intelligence has only intensified the importance of data. AI workloads require access to large, high-quality datasets so that AI models can be trained effectively and generate accurate insights. However, the government's legacy systems inevitably create silos of data that don't connect to one another, making it difficult if not impossible to combine all the relevant data into one pool and presenting significant barriers to AI success.

To harness the full power of AI, agencies need a modernized, intelligent data infrastructure that unifies data across all environments—from the edge to the core data center and out to the cloud. The goal is a single, consolidated foundation that eliminates silos and gives AI applications secure and efficient access to the data they need, wherever it resides.

Transforming security into a key enabler of data sharing

This modernization is the foundational step for transforming data into a strategic asset for AI-driven missions. When AI's analytical and predictive power is combined with the government's vast data volumes, agencies improve their ability to enhance efficiency and speed mission outcomes.

It is also possible to break down data silos while preserving or even improving cybersecurity. The solution is to adopt a secure-by-design approach to data infrastructure that embeds security and data governance directly into the storage layer where data lives, instead of treating security as a perimeter-based afterthought.

A unified data fabric that spans the edge to the cloud and manages everything under one consistent security policy provides complete visibility and control over all data in all locations. By embedding capabilities such as real-time threat detection and ransomware protection directly at the source, agencies can confidently break down silos while knowing their data is protected by a robust and holistic security posture. This approach transforms security from a potential obstacle into a key enabler of data sharing and AI innovation.

Efficiently managing data from edge to core to cloud

NetApp is uniquely positioned to help agencies implement the vision of a secure, modern data infrastructure and unlock the full potential of their data. Our intelligent data infrastructure provides the unified platform required to securely and efficiently manage data across the entire hybrid multi-cloud landscape—from edge to core to cloud.

By integrating with the world's biggest cloud providers and with agencies' legacy IT systems, NetApp helps the government break down the data silos that inhibit AI and ensure data is always available for analytics and model training.

Faster and more efficient data collection means AI tools can generate faster and more accurate data-driven insights. Across all IT environments, NetApp's scalable, reliable and cost-effective solutions adapt to the government's evolving needs.

NetApp's secure-by-design architecture embeds robust cybersecurity, compliance and governance directly into the data fabric so agencies can use their data with confidence. Because our tools deliver the performance, scalability and security required for complex AI workloads, we empower agencies to accelerate their AI-driven insights and achieve their mission objectives with endless possibilities. ◾

Cecile Kellam is a senior solutions architect and Dani Conner is an AI solution sales specialist at NetApp.

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