

# Guidance for U.S. Federal Agencies Leveraging Trustworthy AI



Federal agencies are in a unique position to cultivate public trust in artificial intelligence (AI), and to leverage it with data to improve their operations and public service. For data-rich agencies, in particular, [AI is a critical capability](#) to unlock shared data's potential.

In December 2020, the U.S. government demonstrated its full commitment to accelerating the adoption of trustworthy AI with a new Executive Order—and here's what Federal agencies need to know.

## Key Principles of the Executive Order on Promoting Use of Trustworthy AI

The [Executive Order on Promoting the Use of Trustworthy Artificial Intelligence in the Federal Government](#) gives agencies the safeguards and support they need to modernize operations with AI. The order establishes clear guidance for safely leveraging AI. It also sets parameters to ensure the use of AI is both effective *and* protective of privacy, civil rights, civil liberties, and American values.

When designing, developing, acquiring, and using AI-powered applications, the order states that Federal agencies must adhere to several principles, which include but aren't limited to:

- Lawful and respectful of U.S. values
- Purposeful and performance-driven
- Accurate, reliable, and effective
- Safe, secure, and resilient
- Understandable
- Regularly monitored
- Accountable

For many, adoption and adherence will depend on adequate IT capabilities and AI-ready infrastructures. Pure Storage® is poised to be an ideal partner for agencies embarking on an AI strategy. Pure's single, scale-out storage platform can address the above principles and help accelerate modern analytics and AI workloads as follows:

**Lawful and respectful of U.S. values:** Pure gives agencies the ability to leverage AI while respecting requirements to act in accordance with federal laws and values. Pure provides dedicated support from U.S. citizens on U.S. soil to meet the regulatory needs of government agencies.

**Purposeful and performance-driven:** Pure AI solutions provide the features and functionality that agencies need to execute increasingly complex initiatives. Agencies today are often hamstrung by siloed, legacy analytics infrastructure. With Pure, they can consolidate and unify data, making it more accessible and more valuable. Pure's end-to-end AI solution delivers performance, agility, and security to allow agencies to design, develop, and deploy AI quickly and at scale.

**Accurate, reliable, and effective:** Governments everywhere are using AI to transform services. Legacy systems often can't support the massive AI data pipelines required for modern analytics. Pure's massively parallel platform is capable of delivering ultra-fast, all-flash performance to billions of objects and files.

**Safe, secure, and resilient:** Pure believes that data must be secured to the highest possible standards. This level of security should be *transparent*—meaning invisible to the customer and requiring zero management. Pure secures data at rest with AES-256 bit encryption. Moreover, the encryption occurs without impact to performance and while maintaining full data-reduction capabilities. Pure products are validated to meet NIST's FIPS 140-2 standard for data encryption.

**Understandable:** Data is the lifeblood of AI, but it's often stuck in legacy infrastructure and sprawling silos. Pure's AI solutions help simplify agency operations. From data capture to neural network training, Pure delivers a single, scale-out storage platform that consolidates AI workloads. Agencies can rely on Pure for intuitive management as their environments and operations grow increasingly complex.

**Regularly monitored:** Pure1® offers simple storage management for smart storage, itself powered by AI technology. Pure1 provides workload and capacity planning, analytics, technical support, and more. Pure1 provides visibility wherever needed through a mobile app that provides complete visibility of arrays and any support cases.

**Accountable:** Agencies are accountable for implementing and enforcing appropriate safeguards for the proper use and functioning of their use of AI. At the core of this is data protection. Pure FlashBlade® helps mitigate against ransomware attacks. And with [SafeMode](#) snapshots, agencies can create read-only snapshots of backup data and associated metadata catalogs and use them to recover data in the event of a ransomware attack or even a rogue administrator.

# Smarter Infrastructure for AI

AI workloads process massive amounts of data from structured and unstructured sources. Pure provides high-performance, architecturally optimized solutions that can harmoniously exist within existing data centers. Government agencies can leverage the power of AI to improve operations, meet strategic goals, reduce costs, increase efficiency and mission effectiveness, improve quality of services, and support decision-making.

***[Learn more about Pure solutions for government agencies.](#)***