



GAINING THE CYBER EDGE

How Cludera Powers Federal Systems Integrators' Cybersecurity Services

Federal agencies face a massive challenge when it comes to cybersecurity. Government and citizen data, and other IT assets, are high-value targets for hackers and other bad actors who have a wide range of attack methods at their disposal, from phishing to malware, to advanced persistent threats (APTs), to distributed-denial-of-service (DDoS) events and more. Federal executive branch civilian agencies reported more than 28,000 cybersecurity incidents to the Department of Homeland Security in FY 2019, according to a 2020 GAO report.

Building and maintaining a strong cybersecurity posture in this rapidly growing and evolving threat landscape is virtually impossible with ad-hoc manual processes, incomplete data, and a patchwork of point solutions — especially given the incredible scale of systems and data that agencies must maintain.

Federal agencies, and the federal systems integrators (FSIs) that support their cybersecurity services, require a platform that can bring all of their data into a single place and enable 360-degree monitoring, actionable insights in context, and rapid threat detection and response. Agency missions are too critical to be exposed to unchecked cyber risks; they need a robust, centralized, data-driven platform to succeed.

Hundreds of government agencies spanning

40+

countries rely on Cludera

Cludera Data Platform for Cybersecurity Services

Cludera Data Platform (CDP) delivers a critical backbone for FSIs and the cybersecurity services they provide to federal agency clients. There are three ways that CDP delivers direct benefits to FSIs:

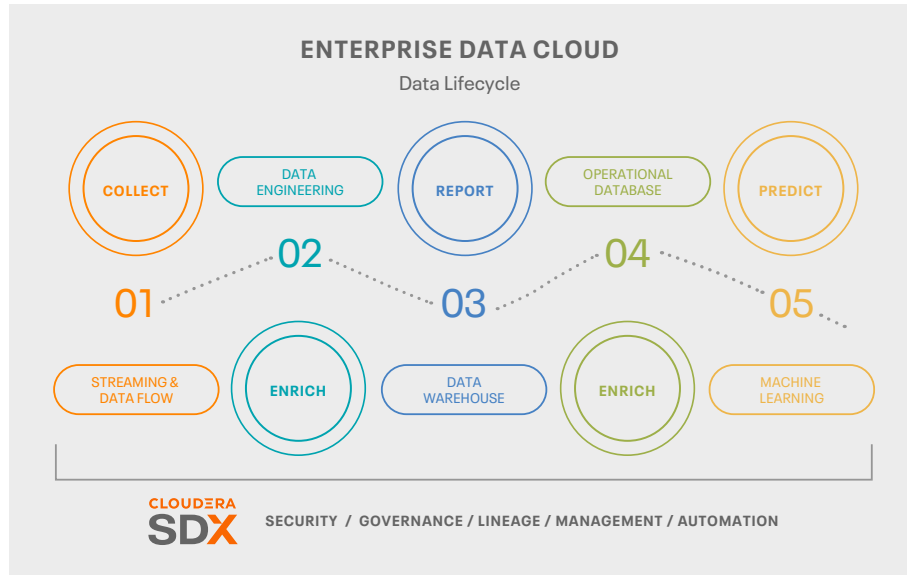
- Built-in, enterprise-grade security and governance with SDX (Shared Data Experience).** SDX gives FSIs a single control pane to secure, govern, and track lineage across complex on-premises, hybrid, and multi-cloud deployments. This serves a particularly critical requirement in today's federal IT environments: public and private cloud adoption continues across the federal government, but agencies will inevitably need to continue to manage on-premises infrastructure as well.
- Complete data lifecycle.** From data ingestion through curation and reporting, to machine learning (ML) and AI applications for any type of source data (streaming or batch) and any format with Cludera Data Flow services as well as Data Visualization and Query interfaces to streaming data sets. FSIs and their federal agency customers can perform all of these functions in a single, enterprise data platform, reducing the time-to-insight and time-to-value.

Cloudera Offers Federal Agencies:

- Connected Platform: Rigorously tested to ensure integration, security, quality and ease-of-use. Includes an enterprise-grade management console.
- U.S. Fully cleared U.S. citizens working in data centers on U.S. soil with extensive knowledge on government best practices, available 24x7 with experts on every component of our stack.
- Professional Services: Hands-on installation, integration, optimization, upgrade, patching and troubleshooting.
- Training: Expert training on each component of Cloudera, offering agencies experience and certification. Available on-site in set periods of time, IT staff can train at their own pace on-demand online.

The importance of this cannot be overstated. So many cybersecurity risks are rooted in a lack of visibility: If you can't see it, you can't monitor or mitigate it.

- **Open data standards, cloud portability, data independence.** CDP is an open source solution that frees FSIs, and the agencies they serve, from vendor lock-in and proprietary formats and technologies. Backed by an enthusiastic community, open to integrations, CDP offers a future-proofed solution that will continue to evolve as new threats and new defensive stratagems emerge.



Cloudera's Approach to Strengthen Cybersecurity in the Federal Government

Cybersecurity teams need to collect and monitor data from all relevant sources. They need robust analytics to detect suspicious or unusual activity, as well as full incident context in order to ensure effective investigation and remediation. They need alerts and automated responses wherever applicable as the sheer volume of data and security events is simply too great to be handled manually. And compliance teams need all applicable data retained for the appropriate amount of time as required by regulations.

This is exactly what Cloudera Data Platform delivers. CDP's platform-based approach to cybersecurity offers industry-leading data and security capabilities for enhanced cyber-readiness. CDP provides a horizontal scale-out architecture for added flexibility and agility as budgets, priorities, and other conditions change. This approach to scaling has been proven effective and efficient by some of the world's largest commercial enterprises and government agencies.

Why Cloudera

Cloudera Data Platform enables organizations to effectively execute their data and analytics strategy to address current and evolving customer expectations.

EDGE TO AI ANALYTICS

Analytics for the complete data lifecycle combined in a single platform, eliminating the need for costly and cumbersome point products.

DATA SECURITY & COMPLIANCE

Maintains consistent data security and governance across all environments.

HYBRID AND MULTI-CLOUD

Delivers the same data management capabilities across all clouds and data centers.

100% OPEN SOURCE

Open compute and open storage ensures zero vendor lock-in and maximum interoperability.

About Cloudera

At Cloudera, we believe that data can make what is impossible today, possible tomorrow. We empower people to transform complex data into clear and actionable insights. Cloudera delivers an enterprise data cloud for any data, anywhere, from the Edge to AI. Powered by the relentless innovation of the open source community, Cloudera advances digital transformation for the world's largest enterprises.

Learn more at cloudera.com

RAYTHEON INTELLIGENCE & SPACE CYBER SERVICES RUN ON CLOUDERA

Raytheon Intelligence & Space, a leading FSI, helps its federal agency customers address their most pressing cybersecurity needs. Raytheon Intelligence & Space recently chose Cloudera as a key partner for its solution, leveraging CDP to achieve a variety of key business benefits that bolster the cyber services it offers to federal agencies. These include:

- **Increased SOC (Security Operations Center) Efficiency:** SOC teams receive threat streams in a single integrated view and toolset—they don't lose valuable time and other resources checking disparate data sources.
- **Rapid Threat Detection:** Speed is of the essence when it comes to detection and remediation, especially as APTs and other attack methods can go undetected for days or even months. Real-time security data ingestion from disparate sources helps ensure rapid detection and response.
- **Reliable Insights:** Raytheon can use ALL of the data — long-term historical data collection, enriched by ongoing data collection and correlations — for improved monitoring and analytics.
- **Human-Assisted Threat Detection:** Intelligent behavior-driven threat detection based on behavior profiles and machine learning helps human cybersecurity teams focus on events that actually require their attention and effort, bolstering security while keeping costs in check.
- **A Flexible Commercial Model:** CDP's horizontal scaling capabilities enable Raytheon to add compute and storage as required, but only if required, to best meet its business needs. This is the most flexible and economically efficient approach to scaling since the infrastructure is all based on commodity servers or commodity cloud services — especially important given the breadth of federal agencies' scope and budget requirements.
- **A Committed Security Cleared Account and Professional Services team:** Everything is supported by an expert team that is passionate about Raytheon's success.

Cloudera brings together the capabilities of a complete cyber solution ready for the public sector's unique needs. This platform-based approach enhances cyber readiness across the board in an age when even the largest, most sophisticated organizations can struggle to keep up with the threat landscape. Agencies acquire end-to-end visibility and control of their data, as well as leading analytics and machine learning capabilities. And Cloudera's horizontal scaling architecture and open approach ensure long-term flexibility and the ability to adapt to changing requirements.

Learn how Cloudera supports Federal Systems Integrators cybersecurity services at cloudera.com.