Government's Data Platform for Modern Applications

Government agencies understand that making smarter, more effective use of their data is critical to improved citizen experiences, mission success and program effectiveness. But many have yet to figure out how to keep pace with our increasingly data-driven world.

Many agencies want to put their data to better use but are constrained because much of it is immobilized within legacy systems and databases that are slow and costly to access and their existing data integration frameworks do not communicate well with each other.

The Confluent event-streaming platform enables government organizations to unlock and repurpose their existing data for countless modern applications and use cases.

What We Do

Confluent, Apache Kafka for the enterprise, is the modern data framework for unlocking data and serving the new applications demanded by users. Using an event-driven architecture, Confluent shifts data from being passive to an active asset for the agency. Confluent drives application behavior as fast as the mission rhythm allows, collapsing the space between data and mission. Powerful replication and data persistence capabilities ensure the resilience and durability required for mission critical workloads.

Confluent can connect to any data source, whether mainframe or other legacy systems, cloud-based storage and applications, or even real time data. This can be within the agency enterprise or beyond. Once Confluent connects to a data source, it can be reused and recombined with other sources to rapidly create new applications and user experiences. With this decoupling of sources and targets, Confluent relieves agencies of the time and resource-intensive chore of point-to-point integrations every time they build a new application. This is why Confluent has become a pervasive data component of microservices strategies.

The event-driven paradigm means the user and applications are delivered continuously relevant data and context. This spares them the overhead and time delays that arise when data and information only come as a result of their action or apps have to periodically poll source systems. Any addition, change, or deletion constitutes an event that invokes the desired functions in numerous downstream applications. Consequently, users receive highly personalized, timely and relevant information. These combined characteristics allow customers to rapidly field new capabilities to users and increase their speed of innovation. For this reason, some customers describe Confluent as the central nervous system for the enterprise.

Confluent Enables Modern, Data-Driven Operations

Confluent is optimally designed to support government DevSecOps practices and the use of microservices. Because Confluent easily and efficiently enables government enterprises to create multiple streaming data pipelines that can then be combined for real-time analysis, it creates countless possibilities for agencies to leverage their data. For instance, an agency could accept a citizen's online application for a government benefit, conduct identification and eligibility verification research with authoritative data sources, determine an appropriate response, and deliver that response back to the citizen in near real time. This is a pattern that has parallels across a wide range of Government programs concerned with healthcare, immigration status, pension or financial assistance, eligibility and permits, student services and more.

By combining real-time and historical data sets, Confluent helps agencies derive new insights and offer new capabilities. For instance, fleet managers can combine real-time driving and performance data on their vehicles along with maintenance records and failure codes to optimize their maintenance programs. Harnessing sensor data also creates the opportunity to advance Smart Cities efforts for transportation systems, building safety and more. It opens up potential for new improvements in patient care and makes it possible to minimize unplanned downtime for critical assets like medical devices or high-performance computers.

Other customers use Confluent's event-streaming platform to create complete, up-to-the-moment readiness reporting or to power investigations and link analysis projects. They build situational awareness applications that sharpen their ability to operate in theaters such as tactical environments for armed forces, national security efforts and disaster response. Still others enhance their supply chain visibility or their cyber posture. They put their data to work as they continuously imagine new capabilities and advance their missions.

Government agencies are using Confluent for a wide variety of tasks and purposes, including:

Data Modernization

Inter-Agency Data Sharing

Citizen Engagements & Customer Service

Fraud, Waste & Abuse

Cybersecurity

Logistics

Military Readiness

Command & Control

Regulatory Oversight

Research & Development

Why Confluent?

Confluent knows Apache Kafka better than anybody. In fact, the original creators of Apache Kafka went on to create Confluent as a way to extend Apache Kafka's event streaming capabilities to meet the more demanding enterprise needs of government agencies and businesses to develop, deploy, operate, and secure modern data-driven applications.

Deploy new systems rapidly with more than 100 connectors to sources and sinks. Democratize the use of the platform with KSQL, an interface that analysts will find immediately familiar and useful to create new event streams. Ensure resiliency with powerful data replication, essential for many geographically distributed operations. Conform to security requirements with Role Based Access Control, FIPS 140-2 compliance and data encryption. Scale up and scale down the infrastructure based on workload demands. Monitor system health and diagnose performance issues with Confluent Command Center. These and other capabilities, combined with Confluent's unmatched support (and US Citizen Support for those customers that require it) make us the right choice for Government customers.

Conclusion

Whether it is powering new levels of citizen engagement or simply providing access to legacy systems and data for modern applications, Confluent is ushering in a new era of modern data-driven applications.

Just as new approaches like DevSecOps and microservices have re-imagined how development is done at the enterprise scale, event streaming is transforming how enterprises leverage their data. In short, Confluent enables agencies to close the space between their data and their missions like never before.

About Confluent

Confluent is a Mountain View, California-based company founded by the original creators of Apache Kafka. We support a client base that spans all sectors of Federal Civilian Government Agencies, Defense, Intelligence, State and Local Governments and Education.

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