

SUCCESS STORY

Expanding a Federal Law Enforcement Agency's Applications and Storage to a Secured Cloud to Reduce Operating Costs



Simplifying IT

1901group.com

Background

This federal law enforcement agency is dedicated to reducing violent crimes, criminal organizations and acts of terrorism. They assist other government organizations, both domestic and international, to prevent crime and violence through enforcement, regulation, outreach, and training programs.

The transformation to a digital government by implementing cloud services was no longer an option, it was imperative to meet the customer's mission objectives. With large data usage and high security needs, this federal agency needed to optimize their IT infrastructure with a secure, hybrid cloud environment that scales to meet mission needs. To address this need, 1901 Group created a secure hybrid cloud environment to host the law enforcement agency's applications, maintain backups in case of major disasters, and reduce operational costs by 30%.

Challenge

This agency uses over 80 applications, both custom developed and off-the-shelf, to serve their mission of protecting the public, including one that provides state and local investigators up-to-date national arson and explosives investigative information. These applications spanned a large environment of over 500 servers. The environment was unoptimized, with critical infrastructure reaching the end of its functioning life and no path for scaling to accommodate their future growth. To protect their applications and maintain their operations, even in the event of an unplanned disaster, this agency needed a cloud-based solution to deliver mission functionality for their stakeholders.

Due to the sensitive nature of their data and services, our customer required all network traffic to be delivered through the agency's secure network. This meant the cloud-based solution required a FISMA-High Authority to Operate (ATO).

Solution

To meet their needs, 1901 Group developed a hybrid cloud environment that combined the computing power and flexibility of the cloud with the chain-of-custody and security features of private cloud storage. The hybrid cloud featured AWS and Azure public cloud for computing and NetApp private cloud for data storage.

To complete this project on time with minimal disruption to the agency's daily business routine, 1901 Group followed an iterative approach, first maximizing data transfer speeds using several connectivity and data transfer options for their legacy systems that minimized bandwidth requirements. Once we completed data transfer, we connected and configured AWS GovCloud, and began migrating workloads from on-premise to the cloud. We introduced innovative technologies such as containers, continuous integration/continuous deployment (CI/CD) pipelines, microservices, and advanced analytics.

To meet ATO requirements, we used our knowledge and experience to achieve FISMA-High for the new cloud environment in just four months, allowing the agency to use cloud computing capabilities, including 99.9999% system availability, to meet mission demands.

Results

1901 Group implemented a hybrid cloud environment that is scalable and economical, allowing our customer to only pay for the storage they are using without costly excess capacity. The agency has been able to pivot their IT support costs from capital expenses to operational expenses, allowing them to re-direct funding to better support mission needs. If additional capacity is required, the agency can easily add to their current capacity, scaling as the organization grows.

1901 Group's initial takeover of our customer's on-premise operations immediately reduced their operational costs by 30% by switching to a more cost-effective managed services approach.



About 1901 Group

1901 Group, a wholly owned subsidiary of Leidos, is a leading provider of innovative IT services and solutions in the public and private sector market that delivers improved service delivery by leveraging our FedRAMP authorized Enterprise IT Operations Center (EITOC) to provide 24x7 support of end-users, complex IT infrastructure environments, and mission-critical systems.

“ I really enjoy working with our people and our customers, and I like how we took a highly contrarian approach to the traditional IT services business model and, as a result, are working to change how IT is delivered and consumed.”

Sonu Singh

Founder, President and CEO

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