



Case Study

CBTS solution modernizes, simplifies critical security environment



Client: U.S.-based aviation manufacturer

Cybersecurity risk as a concept is composed of infrastructure, compliance, supplier, and threat actors—all critical facets of a growing threat management landscape. In working with the cyber technology and risk subdivision of a major U.S.-based aviation manufacturer, CBTS provided essential guidance and services that allowed the client to make informed threat-related decisions in real time. As an Advanced Amazon Web Services (AWS) Consulting Partner, CBTS is also able to implement AI capabilities and predictive analysis while determining the precise danger presented by cyber-attacks.

| Challenge | CBTS solution | Results |
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| <ul style="list-style-type: none"> The clients prior methodology and process was outdated and leveraged legacy technology. | <ul style="list-style-type: none"> CBTS built a “single pane of glass” centrally located dashboard for the client. | <ul style="list-style-type: none"> The client now benefits from an improved security stance via a modern data lake designed for simplicity and automation. |
| <ul style="list-style-type: none"> The client wanted to build a sophisticated new data platform, but lacked the AWS skills needed to modernize an outmoded system. | <ul style="list-style-type: none"> CBTS also worked closely with the client to create a sophisticated serverless AWS environment built on Lambda. | <ul style="list-style-type: none"> Seamless integration with the client’s data lake results in high-speed transactions and fully automated transactional data processing. |
| <ul style="list-style-type: none"> Previously, integrating new data sources took weeks or months to integrate into their existing environment and the cost was very high. | <ul style="list-style-type: none"> Templated design for importing data using AWS native services to enable speed of implementation, the AWS Data Lake solution is completely serverless, decreasing cost dramatically. | <ul style="list-style-type: none"> Reduced risk through improved insight by ensuring all potential threats are analyzed in real time. |

Challenge

The client organization is a world leader in technologies developed for commercial and military application, including turboprop engines and integrated systems used in aircraft.

As the risk sub-division for a renowned technology manufacturer, the client protects its infrastructure against various hacking and phishing attacks. Additional duties such as aggregation and public cloud security maintenance are bolstered by remediation of security incidents across company infrastructure.

The leading air transport innovator faced numerous challenges in guarding its assets—these difficulties were largely tied to the client's use of an outdated data repository that relied on old technology. While the client wanted to leverage a sophisticated data platform, it lacked the AWS cloud experience and skills needed to modernize its system. The client tasked CBTS with developing a new "data lake" flexible enough to meet its needs for a future serverless setting.

CBTS solution

Throughout the consultation and implementation phases, CBTS benefitted from a long-standing relationship with the client built on a foundation of advanced experience and delivering results through modern cloud-enabled technology. CBTS knows that a nimble, high-performance, cost-effective cloud environment is key to success in the emerging digital services space. Our managed serverless AWS environment seamlessly integrates with our client's data lake platform, allowing for high-speed transactions and fully automated transactional data processing.

Our team of certified AWS engineers and architects assessed the client's topology, making specific workload recommendations to ensure a secure and effective public cloud environment. Managed AWS Public Cloud from CBTS:

- Empowers developers to focus on core application functionality.
- Automates infrastructure as code and scales on demand.
- Drives cost savings and increases security.

Our client now queries data instantly through CBTS-backed AWS services utilizing Athena, IAM, Glue, and CloudFormation. Additionally, the new data lake automatically generates reports, with security incidents monitored and managed on a 24/7 basis. For the client, a "single pane of glass" consumable dashboard is reliable and easy to navigate. This customized and comprehensive approach demonstrates why selecting the right managed cloud partner is essential for data security.

Results

By selecting and working closely with an independent, trusted advisor in CBTS, our client improved its security stance via a modern data lake designed for simplicity and automation. The client's data lake functions are managed by multiple users thanks to easy-to-learn authentication and access controls.

All data is stored in AWS S3 and boosted by new capabilities that provide leading-edge management support—including automation and container orchestration—alongside next-generation computation services like the Lambda serverless architecture.

CBTS has made significant investment in becoming a Well-Architected Framework Certified Advanced Partner. Designed by AWS, the framework helps our client create a secure, resilient, efficient application infrastructure. Strategic initiatives can now enjoy a quick time to market at a low cost.

[Contact us](#) for more information on how CBTS can implement advanced solutions to modernize your security environment.



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