

Case Study

Rebuilding the Future of Enterprise Application Development with Serverless Technology

Client

Technology Provider

The client provides software and advisory services around operational technology and infrastructure across a number of industries including aviation, healthcare, manufacturing, mining, oil and gas, power generation and distribution, and transportation. The client's legacy ordering application was costing them a small fortune, and they had limited internal resources to rebuild the ordering platform on their own.

Challenge	CBTS solution	Results
<ul style="list-style-type: none"> • Legacy ordering system had to be entirely rewritten from scratch. • Lacked internal expertise. • Needed a cloud-native application that is publicly accessible outside of their network firewall. 	<ul style="list-style-type: none"> • Perform a thorough analysis to determine the functional requirements of the applications. • Develop cloud-native applications to run in a serverless environment. • Deploy AWS Lambda to automate code changes through dev, staging, and production on high-availability compute infrastructure. • Ongoing monitoring, maintenance, and reporting with 24x7x365 visibility and support for developers. 	<ul style="list-style-type: none"> • Significant cost savings with pay-per-use pricing of function Platform as a Service (fPaaS) AWS Lambda. • Decreased deployment time for Continuous Improvement and Continuous Development. • Scale-on-demand architecture enables rapid scale-up automatically. • Built-in high availability and fault tolerance. • No infrastructure to provision or manage.

Challenge

The client needed a cost-effective solution to modernize their legacy ordering system. The client had limited internal resources and lacked the expertise necessary to rebuild the application in a serverless environment.

To meet the advanced requirements of their ideal architecture, the client realized they needed a partner with extensive experience in providing future-forward solutions.

CBTS solution

CBTS was diligent in their assessment of the client's legacy ordering system to architect a new build of the platform that would deliver cost savings and increased efficiency. Our experts decided to build cloud-native applications that would run optimally in a serverless environment for the client's new ordering platform.

In comparing various cloud platforms, CBTS determined Amazon Web Services was the most robust option to meet all of the security and operational requirements necessary for hosting the application's infrastructure.

Results

The client's IT staff no longer has the burden of ongoing maintenance, monitoring, or management of the new application infrastructure. The client can provision and consume the exact resources for each event-driven task that enable their serverless applications to respond immediately and connect to other microservices seamlessly.

Because they only pay for the resources they use during the time the code is running, the cost to support their new environment has been reduced dramatically. The client's IT team is now empowered to focus on mission-critical tasks and can instantaneously deploy application changes and updates with a single line of code in their new high-availability environment.

In identifying and isolating core pieces of functionality, our experts built microservices to strengthen the new environment's security posture and to ensure that their applications are always-on and accessible at the speed of light. The solutions provided by CBTS helped the client redefine and establish their ideal architecture and our ongoing expert support is available to the client 24x7x365. The new serverless architecture delivered significant cost-savings, an improved security program, ease of management, accessibility, as well as the ability to roll out updates instantaneously to help our client attain their current and future business goals.