



CASE STUDY

Fortune 500 company improves scalability, cost effectiveness by migrating application to the cloud

Client Overview

The client is a Fortune 500 Financial Services Institution. It is one of the largest processing and payments firms in the world.

The Challenge

The client was having problems with scaling and modifying its previous application because it was deployed in traditional data centers. Scaling horizontally or vertically was difficult and expensive, and modifying the company's monolithic architecture was cumbersome and time-consuming.

Their old technology was:

- *Not designed for modern use and lacked features and functionalities common in cloud-deployed products*
- *Built with older architecture, making it hard to advance using Microservices, APIs, and Cloud frameworks*
- *Unable to meet their need for a cloud-ready solution*


These pain points prompted the client to turn to Opus for help in migrating the application to the cloud using micro services architecture.




The Solution

The client laid the groundwork for the project. It decided on Microsoft Azure as the initial cloud platform for modeling migration and architecture needs. The company then contracted Opus based on previous relationships centered on product engineering and professional services specific to the switching platform. Opus came into the project offering vast knowledge on the switch, the components necessary to migrate to cloud, as well as the DevOps strategies to move to CI/CD cycle.


Opus suggested a 2-phase approach for the project:


 **1st Phase: Lift and Shift.** *This involves migrating the entire application to the cloud. This solved the problem of horizontal and vertical scaling.*

 **2nd Phase: Micro Service Architecture using Kubernetes.** *Opus broke down the monolithic application into smaller modules, containerized them, and then migrated them to the cloud.*

Opus showcased its Switch knowledge and DevOps capabilities in the project, along with its domain knowledge and strong technical capabilities:

 *Opus developed the solution and process around specific requirements to re-architect the product from its monolithic state. Opus guided the client through the necessary migration steps to make their product ready for cloud deployment.*

 *Opus worked closely with the client's product team for the testing and deployment on the Microsoft environment. The two worked collaboratively to address any issues towards making the product fully cloud-enabled.*

 *The solution took into account product integrations with other platforms, data/integration needs and capabilities, the need for security and compliance standards, and the secondary technologies necessary to support the product (Kubernetes, etc)*

Benefits Delivered



Flexible support for shift to cloud & product deployment



Scalability and cost effectiveness



Cloud provider-agnostic solution (using Infrastructure-as-a-Code)



Reduced time to market