

Leading Airline and IBM Consulting complete massive cloud migration and modernization

IBM Consulting is the professional services arm of IBM, made up of business, technology and industry experts. Client is the largest US based Global Airline with 80,000 worldwide employees, and \$45 billion in annual revenue.



That ability to rapidly analyze for cloud readiness, resiliency, agility, to visualize the architecture, that's absolutely essential.

John Granger
SVP IBM Consulting

Millions of \$

saved from modernization and migration costs, in addition to the operating savings in faster cloud usage



Fig 1. Automatically build an objective migration roadmap across an entire application portfolio.



Airline company

Without the knowledge base created by CAST, I would be hesitant to change the critical systems and run the risk of stalling the business.

Head of Applications



Fig 2. Automatically discover candidates for Microservices.

Challenge

The client had to move applications to AWS. A simple "Lift & Shift" was not an option as it wouldn't meet the client's objective for modernization and cost savings. The client endeavors to move 1,300 applications to the cloud and to modernize 32 core systems to further improve client experience while reducing costs.

The 32 core application systems are mission critical business systems and account for 90% IT costs in billions of dollars.

The client and IBM Consulting needed a fast and accurate modernization and migration assessment for rationalizing applications and migrating core systems using cloud native AWS microservices.

Solution

The client chose IBM Consulting as their SI partner for modernizing and migrating applications to AWS.

The client selected [CAST Highlight](#) to rationalize the application portfolio of 1,300 applications by automatically analyzing the source code of each of the applications for cloud readiness to migrate to AWS, technical debt, and open source risks.

The client also selected [CAST Imaging](#) to accurately discover the architecture, application dependencies, and inner workings of the top 32 core application systems enabling their modernization.

Results

IBM Consulting used Cloud migration insights from CAST Highlight to determine that 240 applications require Rehosting or Replacing when migrating to AWS, helped further rationalize 200 applications by identifying Cloud blockers to be remediated along with effort estimates. CAST Highlight also identified AWS cloud native services to make the Applications Cloud native.

CAST Imaging helped accurately reverse engineer the architecture of nine applications with detailed views of application inner workings. This essential application intelligence is used to modernize the client's core systems using cloud-based AWS microservices.



CAST automatically 'understands' custom-built applications, providing insights into their inner workings. It augments the human capacity to help software owners modernize and continuously enhance their systems.