Cloud Advisory, Migration, Modernization and Application Development on Azure

Customer Case Studies

IBM **Consulting**

Global package delivery and provider of specialized logistics services

Customer Success Story on Azure Cloud-native

Case Study

Global package delivery and provider of specialized logistics services

100+

Heterogeneous apps (mainframe, custom and package) being managed & supported across on-premise and cloud environments

30+

Legacy JEE apps containerized by migration from WebLogic

Increasing agility & fostering innovation with Cloud-native application build, legacy application modernization & management services

Business transformation challenged by a high degree of legacy applications in their existing portfolio, the client came to IBM to assess their legacy environments for modernization aligned to hybrid multi-cloud roadmap. The goal was to support speed to market and accelerate transformation while finding opportunities to remove operating cost to reinvest in strategic areas for innovation.

The client realized a compelling business case that delivered their hybrid multi-cloud Strategy, operating model, and overall successful enterprise cloud migration.

Microsoft Azure · RED HAT OPENSHIFT · IBM Cloud · Google Cloud · IBM

Case Study

Global package delivery and provider of specialized logistics services

100+ Heterogeneous apps (mainframe, custom and package) being managed & supported across on-premise and cloud environments

01

ADVISE ON CLOUD

The client was challenged by a legacy IT limited by traditional skills & infrastructure with a focus to eliminate technical debt, increase speed to market, drive cost take out and continuously optimize IT.
IBM leveraged our application knowledge, discovery tools and assets to conduct application assessment & built modernization roadmap for portfolio of critical application

02

MOVE TO CLOUD

IBM supported the establishment of a factory based modular approach to migration purposefully fit to the cloud adoption needs while refactoring the existing reinsurance platform leveraging cross-cloud alliances to build flexible hybrid cloud solutions.

03

BUILD CLOUD NATIVE

IBM designed and build new cloud native workloads for multiple target clouds. Additionally, IBM also Co-created AI & Cognitive solutions leveraging IBM garage deployed on IBM Cloud

04

MANAGE ON CLOUD

IBM continues to manage and optimize Manage multiple On Premise, Hybrid, Cloud native business, data & analytics applications on IBM Cloud, GCP, Azure & OpenShift leveraging SRE, Automation, Quality Engineering & DevOps practices.

Microsoft Azure · RED HAT OPENSHIFT · IBM Cloud · Google Cloud

IBM

Global delivery & specialized logistics company: Modernizing application landscape for agility and fostering innovation

Assets & discovery tools
- IBM Garage Method for Cloud Toolkit
- CMA, RHAMT & ARC
- CTI & MAM for mainframe discovery

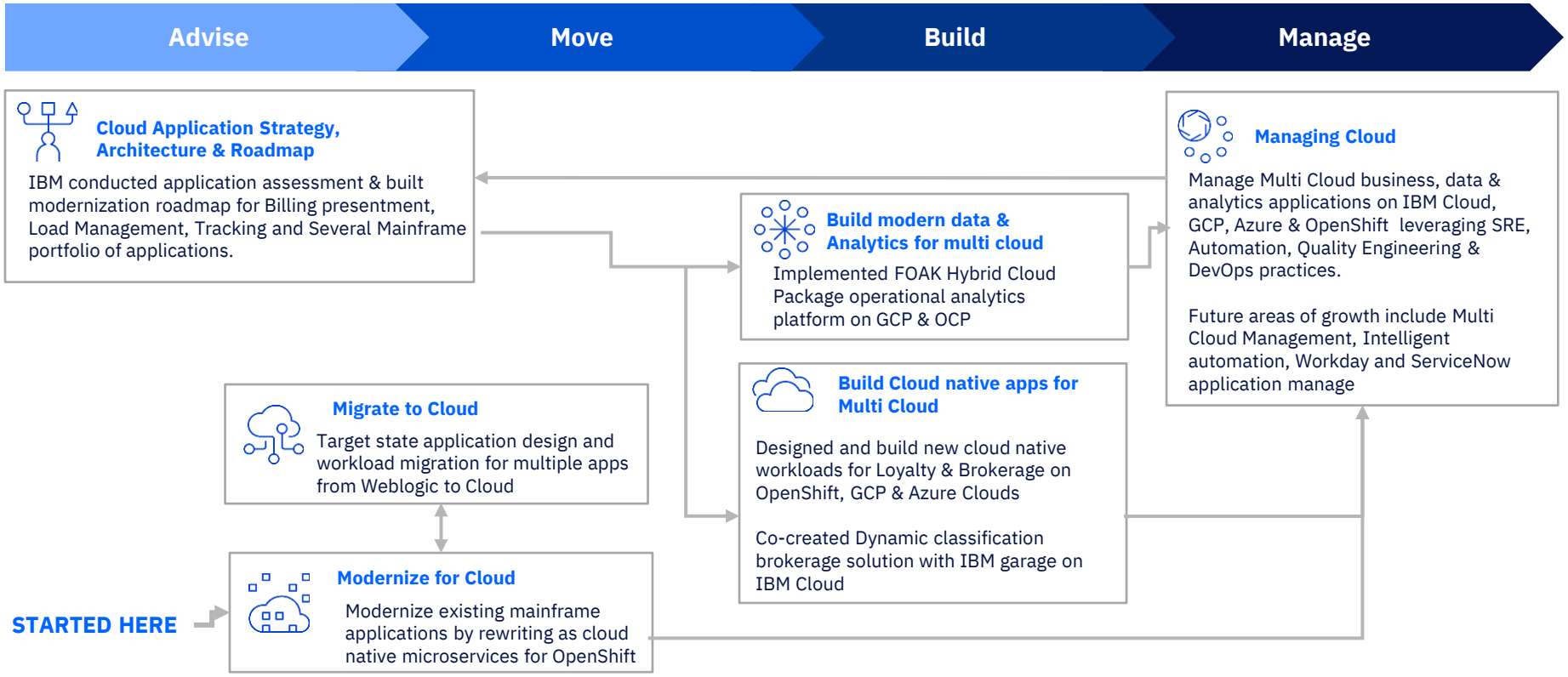
Technologies
- Mainframe modernization on OpenShift
- Modernization of IMS to DB2 (Airline Load handling)
- Global Trade Content portal, built on Azure
- Global Dynamic Analytics portal, built on GCP
- .com appl modernization, WebLogic to OpenShift
- Dynamic rating, built with IBM Garage on IBM Cloud

Strategy to win
- IBM's expertise on GCP, Azure and OpenShift for modernization, cloud-native build, and continuous optimization on managing hybrid cloud workloads
- Experiential selling approach, generating ideas that are demonstrated to clients as POCs
- In few cases, these have also resulted in strategic sole sourcing to IBM.

What can be replicated for other wins
- Transition & knowledge management approach with COG3 (Cognitive Knowledge Management)
- IBM Garage with a gamification approach, for enriching employee experience, reducing overtime and leveraging advanced analytics to dynamically rate shipments

IBM Solution

Microsoft Azure · RED HAT OPENSHIFT · IBM Cloud · Google Cloud



Cloud Being Leveraged To Drive A Broader Digital Transformation

Results

30+ legacy JEE apps Journey to Cloud containerization by migrated from Weblogic

5+ Mainframe modernization by rewriting apps as cloud native microservices for OpenShift

5+ modern data, analytics and cloud native new applications for OpenShift, GCP, IBM Cloud and Azure

100+ heterogeneous apps (Mainframe, Custom and package) being managed & supported across on Premise and cloud environments

Continuing to deliver on
- Portfolio or Application Cloud assessment & Roadmap
- Application Discovery driven modernization
- Co-creation & Garage way of working
- Modernization at scale
- Application Management on Multiple clouds
- Agile Integration & Advanced analytics

Large Mining Company

Case Study: Large Mining Company (External)

Client Background

The client is a leading global mining group that focuses on finding, mining and processing the Earth's mineral resources.

IBM was invited to lead the design, architecture and implementation of Enterprise Container Platform in client's Azure environment along with Microsoft and Red Hat. Further, IBM worked closely with the client to modernise and containerize 2 legacy in-house and 2 COTS business applications.

The target container platform was endorsed by client's application, cloud and security teams. The platform was able to run mixed workloads Linux and Windows and the platform was deployed into client's Azure cloud. The whole journey took less then 8 weeks.

Client Value & Business Outcomes

- → Defined a roadmap and Enterprise Container Platform target architecture that align business and IT
- → Modernisation container-based solution optimised for Red Hat OpenShift Container Platform, application portability from data center to cloud and edge
- → Incremental modernisation with co-existence and reduced risk
- → Faster time to market and secure application deployments: increased agility to deploy to production systems and roll back if issues arise

IBM Value & Differentiation

- → Partnership with Microsoft and Red Hat
- → Strong microservices experience & architecture methodology
- → Able to deploy OpenShift on client's strategic cloud provider
- → Able to run Rapid Application Portfolio Assessment
- → Agile, DevOps and RedHat Cloud Implementation Project Experience
- → Consistent Delivery Performance, Clear value addition approach

Client Pain Points

- → No defined Enterprise Cloud Strategy
- → Lack of modernisation & container skills
- → Complexity in technology aspects, such application landscape, migration, adoption of cloud technologies
- → Proliferation of application across different business units/functions, configurations, dependencies leading to longer development cycle
- → Lack of automation; some applications and platforms not automation-friendly

Delivery Solution Highlights

- → Delivered using Minimum Viable and Experiential Architecture methodology endorsed by client's app, cloud and security team
- → OpenShift installed on client's Azure Cloud using full automation
- → Partnered with Microsoft and Red Hat
- → Modernised and Containerised 4 business applications
- → Conducted Rapid Application Portfolio Assessment
- → Leveraged existing technology stack Azure DevOps and Snyk to deploy and secure apps on OpenShift Platform
- → Mentorship-led approach by providing continuous training and skilling up of app, security and cloud teams
- → Speed to value increased by 5x

Other Customer Case Studies

Other Customer Case Studies

Customers using OpenShift on Azure today

Reference: https://www.openshift.com/products/azure-openshift

Lufthansa Technik

The AVIATAR team collaborated with Microsoft and Red Hat to create its new hybrid cloud environment. The initial version of the platform was launched in just 100 days.

Read more

Amsterdam Airport

Leveraged OpenShift on Azure to improve its passenger experience and become the best digital airport, Amsterdam Airport Schiphol decided to migrate several of its IT systems to the cloud to become more flexible, secure, and efficient

Read more

Deutsche Bank

Built a new Platform-as-a-Service (PaaS), Fabric, which uses microservices and container capabilities of Red Hat OpenShift Container Platform, and runs on Red Hat Enterprise Linux in several datacenters and in the bank's Microsoft Azure public cloud environment

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