

Mainframe Revitalization

Colin Ball : 6-7 minutes : 5/3/2024



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Although the mainframe does many things well – it's super reliable, incredibly secure, and capable of processing thousands of transactions simultaneously — the development of its applications is woefully difficult. By contrast, the cloud was built for speed: open source computing languages, containers and new suites of code-building development programs. Mainframe modernization is a complex process, requiring careful planning and delicate expertise to result in success.

Elevator Pitch



Definition: Mainframe Modernization is the pathway to optimize and modernize legacy mainframe infrastructure to achieve faster-go-to-market, agility, innovation and cost savings by moving the mainframe apps and data to the cloud. Clients don't need to choose only a binary path, rather they can take a hybrid path of optimizing some apps on mainframes and some in the cloud.



Business Issues: The main business issues and barriers are high costs of maintaining legacy infrastructure, finding and retaining resources in the market to support apps, the risk-averse mindset because of complexities and risks involved in modernization.



Did You Know? We have a unique IP called Cap360 which is a highly automated assessment tool to identify duplications, redundancies, technical debt and possibilities of optimizations in mainframe apps. This IP is also widely acknowledged by Analysts like Gartner, Forrester and Everest



Did You Know? With CAP360, we have accessed over 1 Billion Lines of Code and successfully defined cost effective transformation roadmap for 100+ customers which includes: 12 of the top 15 insurance firms, 7 of the top 10 global banks and 8 of the top 10 global diversified financial firms



Why Capgemini? We have a deep domain expertise with 20+ Years of FS experience, 3000+ Mainframe professionals, serving 100+ clients across 15 countries. We have already implemented 50+ projects in Mainframe Modernization in Financial Services.



External Recognitions: "Capgemini is a very strong partner in migration and modernization engagements with high technical confidence" – **Gartner**
"Capgemini's CAP360 provides a seamless digital transformation journey to all clients. Capgemini can handle large-scale application modernization and mainframe migrations to the cloud" – **ISG**
"CAP360 Tool Suite is comprehensive with easy to navigate User Interface. Serves every need in the Modernization journey" – **Everest Group**



Best-in-class partnerships: AWS, MS Azure, GCP, IBM



Our Offer Stack:

- Mainframe Portfolio Assessment and Future State Roadmap
- Mainframe reverse engineering & Business rule extraction
- Re-Hosting Services
- Mainframe Modernization to Micro-services
- Mainframe DevOps Maturity Assessment
- Mainframe Application Decommissioning

Business Goal

Business Vision

A key part of a client's transformation journey is modernizing the mainframe – a core piece of legacy technology – which is commonplace in large established businesses. Mainframes can take up a lot of space, have high expenses and can slow down adaptability. Hence a modernization step can boost not just agility, but also substantial cost-savings in the long run.

Business Issues

- **Mainframe costs are high:** The mainframe takes up a large chunk of the IT budget. The more the business depends on it, the more expensive it gets in the long run.
- **Mainframes are not agile:** Developing anything on mainframe slows things down as it is a legacy infrastructure. There is an increasing pressure on the CIO to make the business more agile and move the apps to cloud.
- **Skills shortages and talent attraction:** Mainframe's incompatibility with Open Source coding languages cuts it off from a vast pool of new developer talent which prefers to stick to the modern technologies. The search for the right talent is not only difficult, but also expensive and leads to high dependencies.
- **Risk-averse mindset to modernize infrastructure:** A modernization journey promises higher goals and innovation, but it also carries the risk of losing crucial data, apps or ways that clients interact with the enterprise. This fear at leadership levels can obstruct the intent to modernize infrastructure and needs a trusted partner to solve this business issue.

Solution

Movement from Mainframe to Cloud with a trusted partner is the way forward

The mainframe, like any other hardware, cannot exist today as it did twenty years ago. It must be effectively integrated with the newer technologies such as Cloud, to increase flexibility and speed and to manage costs. The modernization is a complex process, requiring **careful planning and delicate expertise to get proven success**. Applications must be considered to understand whether they still belong on the mainframe, or if they would benefit more from transformation in the cloud. The important thing to remember is that clients **don't have to make a binary choice between mainframe and cloud: they can use both**. The key is choosing the most appropriate platform for each application to achieve the best result for their business. Choosing an **expert consulting and technology partner** who has proven experience and the right understanding of the FS Domain as well as platforms can make this journey more reliable, efficient and simpler.

Research Findings

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- 69% responders in an LzLabs Survey, believed that the inflexibility of their mainframe applications, limits innovation.
- 52% say migrating off the mainframe means better cloud elasticity and/or increased development agility.
- 63% say mainframe staff retirement presents a major risk to their business.
- 93% responders in a Deloitte Survey say it's 'moderately' or 'extremely challenging' to acquire the right mainframe resource.

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Analyst and Advisor Recognitions

The reports below are in the approved citation format by firm. With the exception of “External Link for Customers”, all additional materials are meant for internal use only. Contact analyst.relations@capgemini.com with questions or re-use requests.



ISG Provider Lens

Leaders

Key documents

Mainframe Modernization External Deck_Jan 2023

Sales Deck_Legacy Modernization_2023

Capgemini Mainframe Options Competency Overview

MainframeRevitalization_Educate_ImpactfulPresentation_MainframeModernization-ToolsForSustainability_11152022

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