

Accelerated Mainframe Modernization

Google Business Unit



Enterprises running core business applications on mainframes face multiple challenges, such as high ownership costs, monolithic and unscalable architecture, and low automation potential. The dependence on mainframe has become a major bottle neck in the transformation journey, forcing enterprises to undergo lengthy development cycles to release new products and services and improve customer experience. As a result, there is a high demand for mainframe modernization to fuel growth, accelerate innovation, and find quick resolutions to customer concerns.

TCS Accelerated Mainframe Modernization solution is a one-stop shop to meet the mainframe modernization requirements of enterprises. With a three-step approach, the solution leverages real-time data analytics to address their business needs and challenges by migrating the legacy mainframes to cloud and reducing the time-to-market for new products and services.

Overview

The business impact of COVID-19 has made it imperative for enterprises to embrace scalable and agile technology platforms. These platforms are enabling enterprises to launch new products and services in an accelerated manner to meet the needs of today's digitally savvy customer. The enterprises that have their core business served by legacy applications hosted on mainframes face multiple challenges in this regard such as high total cost of ownership, inability to scale elastically with business demand, high technical debt, shrinking skilled resource base and an inherent deficit of modularity and integrations capabilities. In today's context, it is critical for enterprises with legacy mainframe footprints to undertake transformation journeys to migrate workloads onto cloud platforms.

TCS Accelerated Mainframe Modernization is a structured end-to-end approach to modernize the mainframe estate of an enterprise in an automated and agile manner while ensuring minimum risk to the business and accelerating value realization. With its industry-leading set of accelerators and frameworks, it can quickly convert legacy codes into cloud-ready Java code and reduce the cost of conversion, which, in turn, will enable converting mainframe CAPEX into OPEX based savings.

Solution

Specifically designed to transform legacy systems with a holistic modernization approach, TCS Accelerated Mainframe Modernization solution can be categorized into three phases:

- **Plan phase:** The power of TCS MasterCraft™ is leveraged to auto-discover the existing mainframe landscape, strategize the path to migration covering all key areas, and design the blueprint of the modernized application encompassing areas such as security design, and application design
- **Build phase:** Accelerators such as TCS BITS and TCS Cloud Mason are leveraged to automate rehosting/refactoring of applications. They automate steps such as foundational cloud build, code and data migration/refactoring, and testing
- **Business reliability services:** TCS Cloud Exponence on Google Cloud is leveraged for service reliability to ensure business benefit realization. It enables cloud security, compliance, services management integrations, auto-remediation, and optimized services across capacity planning and right-sizing

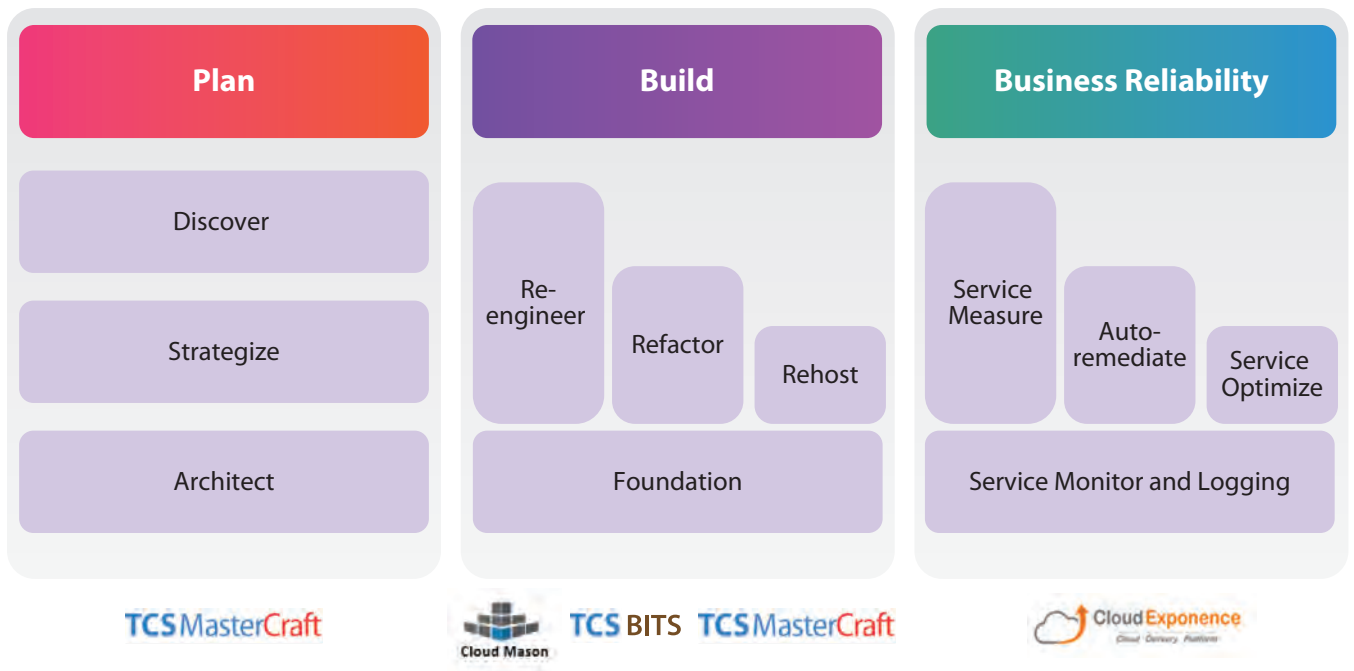


Figure 1: Modernization Methodology and Tools

Benefits

Powered by an established, industry-leading set of accelerators and frameworks, TCS Accelerated Mainframe Modernization solution can help enterprises across the globe reap the following benefits:

Reduce costs

- Guarantees up to 50% reduction in cost of conversion
- Ensures a significant reduction in the mainframe capex costs

Accelerate modernization

- Provides automatic refactoring of legacy applications and data to the target architecture
- Facilitates up to 70% faster mainframe modernization and up to 60% faster conversion of legacy code into cloud-ready Java code

Assure quality

- Helps identify the right migration paths and deploy the right set of automation tools for various testing activities
- Analyzes legacy testing processes and builds test cases for the target application

TCS Advantage

TCS has always believed in delivering business value to its clients with industry leading assets and multi-disciplinary talent to ensure success. By joining hands with us, enterprises can leverage:

- **Industry-leading experts with deep contextual knowledge:** TCS has been delivering mainframe modernization solutions for over 32 years and has a cumulative experience of over 20,000 person years. The practice has a strong base of senior architects and R&D personnel with experience of delivering projects across various industries. This rich experience is leveraged to deliver business value through the mainframe modernization projects
- **Modular, digital, and innovative solution:** TCS' mainframe modernization practice includes eight automation suites for modernization and digitized accelerators to help clients succeed in the Business 4.0™ world
- **Client-friendly delivery model:** TCS makes demonstrable commitments to drive business outcomes beyond traditional efficiencies by offering business reliability services to ensure stringent focus on operational cloud cost optimization and measurable business value realization

Awards & Recognition



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