vírtusa

Engineering First

Unlock business excellence with Virtusa's mainframe modernization

Experience enhanced agility, sustainability, and accelerated time to market on AWS

In today's dynamic business landscape, organizations relying on mainframe systems often grapple with challenges that impede operational efficiency and innovation. These hurdles, such as limited agility, escalating operational costs, and a scarcity of specialized skills, pose formidable obstacles to progress. Within this context, mainframe modernization emerges as a strategic imperative, offering organizations the opportunity to revitalize their core systems and drive innovation, cost-efficiency, and enhanced agility, especially when integrated with AWS cloud services. As a trusted partner with a proven track record of over two and a half decades in mainframe modernization, Virtusa provides a clear path to modernization. Our expertise and capabilities align your mainframe infrastructure with the evolving demands of the digital era, ensuring that you not only keep pace but stay ahead of the curve in the AWS cloud environment.

Why clients are choosing Virtusa?

Clients opt for Virtusa as their partner in mainframe modernization due to the array of benefits they can expect, including:

Improved efficiency: With Virtusa, clients witness a boost in operational efficiency, reducing downtime and enhancing productivity.

Innovation and agility: Virtusa's modernization strategies empower clients to innovate rapidly, adapt to market changes, and enhance their agility.

Risk mitigation: Virtusa's experience and expertise mitigate risks during the modernization journey, ensuring a smooth transition.

Time-to-Market: Clients benefit from reduced time to market for new solutions and capabilities.

These benefits result from Virtusa's core capabilities and our comprehensive approach to Mainframe modernization.

Capabilities

Virtusa boasts a range of capabilities essential for successful mainframe modernization, including:

Proven expertise: Over two and a half decades of experience in modernizing mainframe and legacy systems.

Automation practices: Virtusa employs proven automation to streamline modernization processes, reduce effort, and enhance efficiency.

Innovative frameworks: We offer innovative frameworks for minimizing migration windows, facilitating canary deployments, and executing phased cutover strategies.

Multiple modernization pathways: Virtusa's expertise extends across various modernization pathways, from re-platforming to retirement, ensuring the right fit for each client's unique needs.

Strategic partnerships: We leverage strategic partnerships and our own accelerators and assets to optimize modernization.

Our approach to mainframe modernization

Virtusa's approach to mainframe modernization is marked by precision and strategic acumen. We focus on data-first strategies, reverse engineering, tool-based discovery, deployment of experts, and achieving near-zero downtime. With a combination of modern tools and time-tested strategies, we ensure clients navigate their modernization journey with clarity, confidence, and efficiency.

Virtusa's mainframe modernization solutions are designed to empower clients on their path to modernization, enhancing their operational efficiency and opening doors to a future of innovation and competitiveness.

Analyze application and dependencies	**Build transformation roadmap**	**Develop, maintain, enhance and build applications@scale**	**Run test cases and validate application behavior**	**Deploy, run and manage applications**
Assess	**Calibrate / setup migration COE**	**Develop**	**Validate**	**Deploy and operate**
• Understand business functionality • Application SME and stakeholder interviews • Assess application codebase • Build strategy • POC scoping	• Proof of concept delivery and validation • Modernization strategy • Target stage design • Operating model • DB & data migration strategy • Validation strategy • Detailed project plan • Environment builds	• Rehost, Re-platform, Rearchitect or Refactor per modernization strategy • Factory model like execution for scale • Code optimization and interface integrations as required • Data migration • Third party Integrations • Thorough Dev testing	• Functional tests • System integration tests • Performance verification • Use acceptance tests • Dress rehearsals (Pre-production)	• Cutover and Go-live • Go-live support • Co-exist • Bi-directional replication • KT and transition to maintenance teams • Hyper care – warranty support for postproduction

AWS Partnership for a decade of innovation

Virtusa is one of the pioneer to execute mainframe modernization projects leveraging AWS Blu Age service in association with AWS Pro-serve. Virtusa has been a distinguished AWS partner for over ten years, fostering deep relationships and expertise. Our achievements include being an AWS Premier Services partner since 2017, holding 8 competencies, participating in 6 partner programs, obtaining 3 service validations, launching over 100 AWS customer projects, and actively contributing as an AWS ProServe Strategic Partner.

Success stories

Mainframe data modernization

- Helped an American multinational finance and insurance corporation to migrate DB2 database and claims applications to AWS Cloud Infrastructure as part of mainframe modernization

- Moved away from expensive MF licensing and maintenance costs and helped reduce overall technology infrastructure costs by 40%

Digital transformation

- For an APAC client, we digitally transformed PF-related applications by migrating the entire mainframe platform into a more digitally aligned platform on Java.

- Faster turnaround on the entire project execution. Agile methodology for quick deployment.

- A tool-aided approach that enabled huge cost savings of 60% on effort

Legacy modernization and Cloud transformation

- For a global US bank, Virtusa successfully reverse-engineered mainframe code using the intellect application manager tool.

- Hosted products such as PAAS on cloud resulted in savings of nearly 50% on effort compared to the manual approach.

Core payment modernization

- Helped a leading North American Bank to eliminate a legacy mainframe application to accommodate new business demands and address spiraling costs.

- Reverse-engineered and documented the legacy application processes, extracting rule chains and rules logic from the code embedded with the business logic layer.

- 50% cost saving through the usage of an exclusive tool

To learn more contact us today at **marketing@virtusa.com**

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