



Tech Modernization and Cloud Migration for a Top US Bank

Maximizing Scalability and Efficiency with
Next-Generation Technology and Capabilities





Scaling Success: Innovating Financial Services with Cutting-Edge Technology

Recognized as one of the top financial institutions worldwide and renowned for its expansive reach and influence in the financial sector, this organization holds a prominent position within the largest banks in the US and the world. From retail and investment banking to asset & wealth management, this enterprise offers a comprehensive suite of financial products and services to a broad spectrum of clients.

With a deep understanding of the evolving financial landscape and dynamic client needs, this organization places a premium on innovation and technology. It has embraced ongoing digital transformation to set new standards in financial services, integrating cutting-edge technology for more efficient, secure, and personalized client experiences.

Scalability Roadblocks: Overcoming Critical Challenges for Operational Efficiency

A rich history and extensive reach bring about inherent challenges associated with legacy systems that have become outdated, expensive to maintain, and challenging to integrate with modern technologies, acting as a barrier to the seamless adoption of state-of-the-art solutions.

The organization grappled with scalability roadblocks, impeding its capacity to achieve optimal cost efficiency throughout its operations.

Additionally, the need for swift adjustments in technical resources to accommodate evolving requirements is essential for scalability, and addressing this challenge is pivotal to enhancing operational flexibility.

To this end, this organization sought a comprehensive threefold strategy. Firstly, to explore and evaluate multi-cloud vendor solutions, placing a particular emphasis on

enabling micro-segmentation capabilities. The overarching goal was to establish a reliable and efficient infrastructure capable of managing connectivity to and from applications defined as Virtual Network Boundaries (VNBs).

The second facet of the improvement initiative focused on the development and enhancement of a pivotal network automation tool. This tool was designed to play a crucial role in automating and streamlining network device configuration processes, contributing to increased efficiency and reduced manual intervention.

The third aspect involved harnessing the combined power of Ansible for configuration automation and AWS cloud resources deployed via Terraform. This synergy aimed to elevate network management capabilities and overall operational efficiency.

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Agile Deployment, Robust Solutions: Navigating the Cloud Landscape and Modernization Journey with Minimal Disruptions

In response to these overarching challenges, the organization initiated a quest for a strategic partner with the proficiency to address obsolete technology, facilitate the migration of legacy systems, and guide the transition toward next-generation solutions.

With the right combination of expertise and experience, Brillio stood out as the ideal partner to accelerate the organization's digital transformation journey. A strategic partnership with Brillio also meant enhanced flexibility to scale technical capabilities based on specific requirements.

The teams collaboratively selected cloud platforms and technologies, creating tailored cloud environments for various Proofs of Concept and vendor validation scenarios. This ensured a robust foundation for testing and validation, with a focus on micro-segmentation for precise control over IP and security flows. Connectivity management mechanisms were established to govern access to applications across multiple cloud providers, while security group integration enhanced overall security within the multi-cloud environment.

To enhance internal deployment, automation and DevOps practices were comprehensively integrated. This initiative streamlined network automation, tools for daily operations, infrastructure-as-code, configuration management, and more. By incorporating these advanced practices, the organization optimized efficiency, fostered collaboration, and ensured a more agile and responsive operational environment.

Additionally, network device configuration was automated using Ansible, significantly reducing manual errors. Terraform was utilized for the strategic deployment of AWS cloud resources, ensuring efficient resource utilization and scalability while improving the reliability of the network infrastructure.

A phased approach was adopted for the technology upgrade and refresh, ensuring minimal disruption to ongoing operations. This structured strategy ensures that outdated technologies are systematically replaced with more efficient and secure solutions across the entire Network Product Line (NPL). This comprehensive upgrade spans various sectors, including core network, business partners, retail, and corporate.

Efficiency Unleashed: Streamlining Operations and Optimizing Costs

Tasks such as configuring intricate cloud infrastructure, optimizing network performance and management, and executing high-end cloud DevOps and security made it vital to tap into specialist talent.

Leveraging Brillio's experienced talent pool provided the skills and scalability required for faster delivery and efficient management of complex cloud projects, enhancing the ability to navigate the challenges of the fast-paced financial industry with increased efficiency, flexibility, and adaptability.

Streamlining internal deployment processes through automation and DevOps practices

increased operational efficiency. The selection of suitable cloud platforms and technologies enabled the seamless creation of essential cloud environments, supporting diverse testing and validation requirements.

Additionally, the technology upgrade and refresh initiative addressed challenges associated with legacy systems, enhancing the overall reliability and security of the Network Product Line (NPL), including core network, business partners, retail, and corporate sectors.

- **Increased operational efficiency**
- **Improved adaptability and scalability**
- **Elevated security**
- **Enhanced reliability**

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ABOUT BRILLIO

At Brillio, our customers are at the heart of everything we do. We were founded on the philosophy that to be great at something, you need to be unreasonably focused. That's why we are relentless about delivering the technology-enabled solutions our customers need to thrive in today's digital economy. Simply put, we help our customers accelerate what matters to their business by leveraging our expertise in agile engineering to bring human-centric products to market at warp speed. Born in the digital age, we embrace the four superpowers of technology, enabling our customers to not only improve their current performance but to rethink their business in entirely new ways. Headquartered in Silicon Valley, Brillio has exceptional employees worldwide and is trusted by hundreds of Fortune 2000 organizations across the globe.



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