

Accelerate Your AWS to GCP Migration for QSR with Brillio



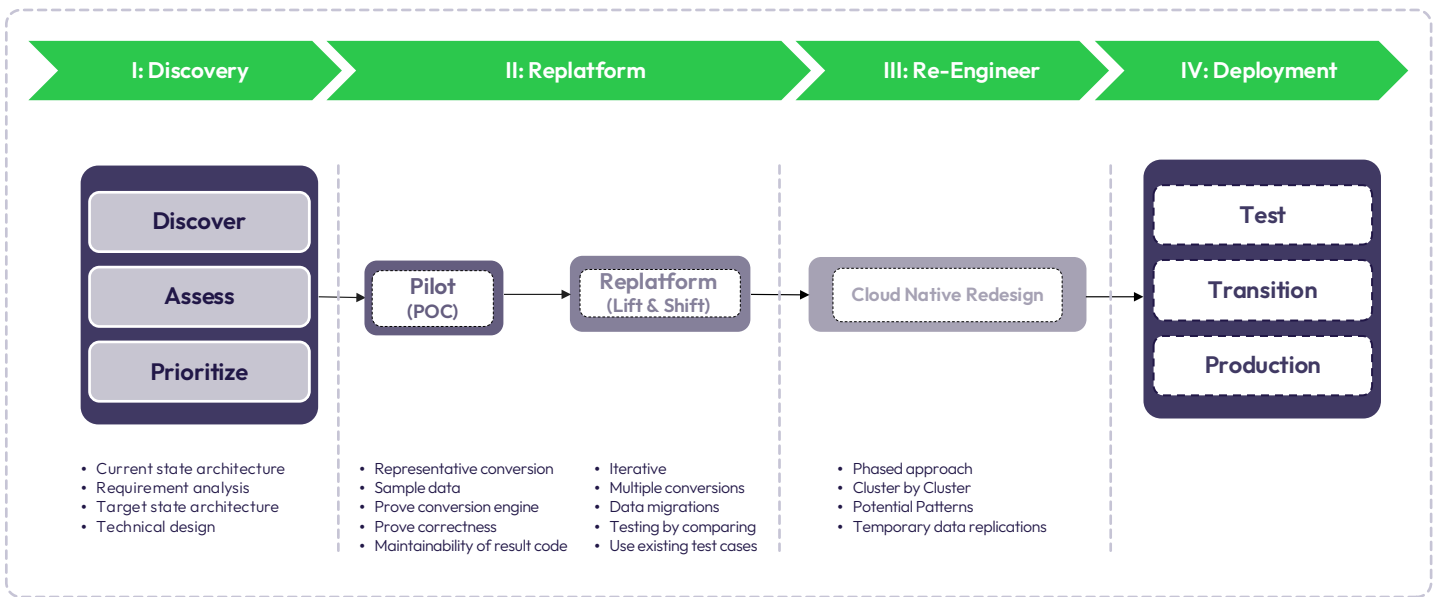
As your Quick Service Restaurant business grows, customer expectations evolve, and the need for real-time data insights becomes critical, your technology infrastructure must keep pace. Brillio provides a comprehensive solution for migrating your operations from AWS to Google Cloud Platform (GCP), addressing the unique challenges faced by Quick Service Restaurant chains, such as:

- **High Transaction Volumes:** Handling peak order times and preventing system slowdowns that impact customer experience.
- **Legacy System Integration:** Connecting older POS systems, kitchen management software, and loyalty programs with modern cloud infrastructure.
- **Data Silos:** Breaking down barriers between different data sources (drive-thru, mobile app, in-store kiosks) to gain a unified view of your customers.
- **Real-Time Demands:** Need for immediate insights to optimize staffing, inventory, and promotions.
- **Cost Optimization:** Balancing the need for advanced technology with the tight margins of the Quick Service Restaurant industry.
- **High Data Availability and Resilience:** Preventing application failure due to high traffic.

Brillio's end-to-end approach leverages the latest in application reengineering and code refactoring, maximizing automation to modernize your applications economically and safely. We utilize our proprietary BrillioOne.ai platform, infused with Generative AI, to accelerate the migration process. With Brillio, gain a flexible, secure, and scalable cloud infrastructure on GCP, optimizing for both immediate needs and future growth, specifically tailored for the demands of the fast-paced Quick Service Restaurant environment.

Our Phased Data App Migration Framework

Brillio leverages our application reengineering, code refactoring methods, and tools to safely and economically transform data applications into modern cloud solutions through extensive automation. Our framework is designed to minimize disruption to your restaurant operations.



Pre-Planning and Discovery: Laying the Foundation for success

Through a structured kickoff, we identify and catalog all applications and data within your AWS ecosystem, mapping out key stakeholders and assessing your current setup. We select pilot applications that are representative of your Quick Service Restaurant environment (e.g., a specific component of your POS system, a loyalty program module). Our assessment process uses advanced techniques to rapidly analyze the complexity and dependencies of these applications. We prioritize understanding your critical business processes, including:

- **Order Management:** How orders flow from various channels (drive-thru, mobile, kiosk, delivery partners) to the kitchen.
- **Inventory Management:** Real-time stock levels, supply chain integration, and waste reduction strategies.
- **Customer Loyalty Programs:** Data integration and personalization opportunities.
- **Reporting and Analytics:** Key performance indicators (KPIs) that drive your business decisions (e.g., speed of service, average order value, customer satisfaction).
- **Point of Sale (POS) System:** Integration with existing and potentially legacy POS hardware and software.

We define migration approaches (lift-and-shift, replatforming, re-engineering) tailored to each application's needs and your Quick Service Restaurant's priorities. We develop a detailed migration plan, including designing the GCP architecture, defining team constructs, and setting the roadmap for implementation.

What you get: Comprehensive Scope Document (including AWS infrastructure documentation, identified Quick Service Restaurant-specific pain points), and a Migration Strategy and Implementation Plan (including architecture design, timelines, and budgets).

In-depth Analysis: Evaluating Compatibility and Costs

Our team, leveraging automated analysis tools, assesses application compatibility with GCP, identifies necessary adjustments (e.g., modernizing legacy POS integrations), and evaluates data structures and performance metrics. We conduct a cost comparison to estimate potential savings on GCP, focusing on areas crucial to Quick Service Restaurants, such as:

- **Compute Costs:** Optimizing resource allocation to handle fluctuating demand (e.g., lunch rush).
- **Data Storage Costs:** Efficiently storing and accessing large volumes of transaction data.
- **Networking Costs:** Ensuring fast and reliable connectivity between your restaurants, headquarters, and cloud services.

- **AI/ML Services:** Potential cost savings and revenue generation through services like personalized recommendations and predictive analytics.

What you get: Application Inventory, Compatibility Report (highlighting any Quick Service Restaurant-specific integration challenges), and a Data Migration Plan tailored to minimize downtime and ensure data integrity for your critical Quick Service Restaurant's systems.

Replatforming: Migrating Applications and Data to GCP

Applications and data are migrated to GCP-compatible services with optimized configurations. We integrate applications with GCP storage solutions like BigQuery and Cloud Storage and ensure business continuity throughout, paying special attention to the always-on needs of a Quick Service Restaurant. We ensure no orders are lost and customer experience is uninterrupted. Leverage GCPs:

- **Data Flexibility:** Support for structured and semi-structured data with schema-on-write, ideal for handling diverse Quick Service Restaurant data sources.
- **Cost-Effective Backups:** Affordable point-in-time backups without complex tuning, ensuring data protection.

What you get: Configured GCP environment with optimal performance and seamless data migration.

Re-Engineering: Enhancing for Performance on GCP

We refactor application code, using advanced techniques to accelerate the process, to optimize for GCP services, addressing compatibility issues and boosting performance. This stage includes incorporating GCPs security features and integrating additional GCP-native functionalities. For Quick Service Restaurants, this often means:

- **Leveraging Cloud Functions:** For serverless event-driven processing of orders, loyalty updates, etc.
- **Using BigQuery:** For real-time analytics on sales, inventory, and customer behavior.
- **Implementing AI Platform:** For personalized recommendations, predictive maintenance, and drive-thru optimization.
- **Utilizing GCP's AI/ML Support:** Tapping into native Google AI services, including Gemini and BQML, to build intelligent Quick Service Restaurant applications.

What you get: Cloud-native architecture optimized for GCP, with improved performance and enhanced functionality, specifically tailored for Quick Service Restaurant needs.

Deployment: Transitioning Smoothly to GCP

With a comprehensive deployment plan, we transfer refactored applications and data onto GCP. We employ rigorous and automated testing procedures. We conduct thorough testing for security, performance, and functionality to ensure smooth operation. We prioritize minimizing downtime and ensuring data integrity, crucial for maintaining continuous service in a Quick Service Restaurant environment.

What you get: Verified application performance on GCP, security and performance test reports, and support materials for a seamless transition.

Outcomes: Realize the Full Potential of GCP

- **Performance & Scalability:** Manage petabyte-scale data with >99.99% uptime and real-time analytics, crucial for handling peak order times and providing instant insights.
- **Business Intelligence:** Unlock smart BI and analytics through a semantic layer architecture, enabling data-driven decisions to optimize menu offerings, promotions, and staffing.
- **Enhanced Customer Experience:** Faster service, personalized offers, and seamless ordering across all channels.
- **Improved Operational Efficiency:** Optimized staffing, reduced waste, and streamlined kitchen operations.
- **Cost Optimization:** Reduce IT infrastructure costs and improve overall efficiency.

Brillio's Accelerators to Modernize Your Tech Stack

Brillio utilizes a suite of proprietary tools and methodologies to significantly accelerate the migration process and reduce risk. These accelerators encompass code analysis, transformation, and testing, allowing for a faster and more efficient transition to GCP.

Call to Action:

Schedule a consultation with Brillio to discuss your Quick Service Restaurant's specific needs and explore how our GCP migration framework can help you achieve your business goals. Let's build the future of your Quick Service Restaurant together.



ABOUT BRILLIO

Brillio is one of the fastest growing digital technology service providers and the partner of choice for many Fortune 1000 companies seeking to turn disruptions into competitive advantages through innovative digital adoption. We help clients harness the transformative potential of the four superpowers of technology: cloud computing, Internet of Things (IoT), artificial intelligence (AI) and mobility. Born digital in 2014, we apply our expertise in customer experience solutions, data analytics and AI, digital infrastructure and security, and platform and product engineering to help clients quickly innovate for growth, create digital products, build service platforms, and drive smarter, data-driven performance. With 14 locations across the US, the UK, Romania, Canada, Mexico, and India, our growing global workforce of 6,000 Brillians blends the latest technology and design thinking with digital fluency to solve complex business problems and drive competitive differentiation for our clients. Brillio was certified by Great Place to Work® in 2021, 2022, 2023, and 2024.



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