

# RapidScale Google Cloud Application Modernization Services

Transform Legacy Applications into Cloud-Native Solutions

As a Google Cloud Partner, RapidScale's Innovation & Transformation Services team specializes in modernizing legacy applications. We re-architect and rebuild systems to improve performance, scalability, and maintainability on Google Cloud, reducing the technical debt and operational overhead of outdated architectures.

## Core Modernization Strategies for Google Cloud

| Strategy                          | Approach                                                                                                                                | Google Cloud Services                                                                      |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Rehost (Lift &amp; Shift)</b>  | Migrate applications/workloads to Google Cloud with minimal modification to establish a baseline for future optimization.               | Google Compute Engine, VMware Engine, Persistent Disk                                      |
| <b>Refactor &amp; Rearchitect</b> | Break monoliths into microservices, containerize, and leverage cloud-native services for improved isolation and independent deployment. | Google Kubernetes Engine, Cloud Functions, Workflow, Cloud Run, Apigee, Pub/Sub, Cloud SQL |
| <b>Rebuild</b>                    | Rebuild applications from the ground up using serverless architectures and managed services to maximize efficiency and scalability.     | Cloud Functions, Workflow, Cloud Run, Pub/Sub, Firestore, Spanner, BigQuery                |
| <b>Replace</b>                    | Replace legacy/custom apps with SaaS or managed Google Cloud platform services to reduce maintenance overhead.                          | Google Workspace, Looker, BigQuery, Marketplace solutions                                  |

# Key Architectural Principles

- **Cloud-Native Development** – 15-factor app principles
- **Containerization** – Docker containers for portability and consistency
- **Microservices** – Small, independently deployable services
- **Domain-Driven Design** – Modeling software to align with business processes
- **Event-Driven Architecture** – Loosely coupled producers/consumers for data exchange

Beyond infrastructure, RapidScale integrates advanced AI and data engineering to build intelligent, data-centric applications on Google Cloud.

## AI/ML Integration & Enablement

RapidScale leverages Google Cloud's AI stack to deliver practical, domain-specific solutions:

- **LLM Integration** – Robust integrations with Google's foundation models (Gemini) via Vertex AI: API integration, context management, and output validation.
- **Applied AI Engineering** – Prompt engineering frameworks, model fine-tuning, and Retrieval-Augmented Generation (RAG) to ground models in enterprise knowledge.

### Example Use Cases:

- Intelligent Document Processing (financial forms, contracts, insurance claims)
- Content Automation (product guides, knowledge base articles, job descriptions)
- Workflow Automation (autonomous agents, agentic workflows, multi-agent collaboration)

**Primary Google Cloud AI Services:** Vertex AI, Gemini Models, Dialogflow, Document AI

## Data Modernization & Analytics

We architect the necessary platforms and pipelines to transform raw data into actionable insights:

- **Data Pipeline Development** – Automated ETL/ELT for ingestion, cleaning, normalization, and enrichment
- **Cloud Data Platforms** – BigQuery as a centralized, scalable data warehouse
- **Business Intelligence (BI)** – Looker dashboards and self-service analytics for business users

**Primary Google Cloud Data Services:** BigQuery, Cloud Dataflow, Dataproc, Looker, Cloud SQL

# Core Modernization Strategies for Google Cloud

| Capability Domain            | Google Cloud Services                        | Key Activities & Frameworks                                             |
|------------------------------|----------------------------------------------|-------------------------------------------------------------------------|
| API Development & Management | Apigee                                       | API strategy, RESTful design, OpenAPI specs, API gateway implementation |
| DevOps & CI/CD               | Cloud Build, Artifact Registry               | Value stream mapping, pipeline design, automated testing integration    |
| Infrastructure as Code (IaC) | Cloud Deployment Manager, Terraform          | Declarative configurations, reusable modules, Git-based workflows       |
| Managed Observability        | Cloud Monitoring, Cloud Logging, Cloud Trace | Distributed tracing, centralized log management, SLO tracking           |
| Event-Driven Architecture    | Pub/Sub, Eventarc                            | Event modeling, pub/sub patterns, event schema design                   |

## Why RapidScale

- Google Cloud Partner with deep modernization expertise
- Proven frameworks for application, AI/ML, and data modernization
- Integrated approach to architecture, development, and operations

## Get Started

Transform your legacy applications with **RapidScale's Google Cloud Application Modernization Services.**

SIMPLIFY MANAGEMENT. CONTROL COSTS. DRIVE INNOVATION.

## Why RapidScale?

As a Google Cloud Sell and Service Partner, RapidScale offers comprehensive managed services for Google Cloud, designed to simplify your IT operations, control costs, and accelerate innovation. We provide 24/7/365 hands-on support from our team of certified experts, offering strategic insights and continuous monitoring to optimize your cloud environment, maximize performance, and ensure complete cost visibility. Our services encompass everything from infrastructure management and FinOps best practices for cost optimization to strategic consulting and technical workshops that align your cloud with long-term business goals, including cutting-edge AI/ML and modern workloads.

We also deliver professional services like infrastructure discovery, migration, application modernization, and data/AI strategy workshops, all backed by a team holding over 100 Google Cloud certifications, including:

- > Professional Cloud Architect
- > Professional Cloud Developer
- > Professional Cloud Security Engineer
- > Professional Google Workspace Administrator
- > Professional Machine Learning Engineer
- > Professional Cloud Network Engineer
- > Professional DevOps Engineer
- > Professional Data Engineer

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