

Our Google Cloud Partnership

Accelerating AI Adoption Through Innovative Cloud Services

Every business today aims to reduce total cost of ownership and provide innovative experiences through AI enabled agile, scalable and efficient services. They are also looking for greater security, flexibility, mobility, availability, competitive edge and sustainability. Google Cloud services enable enterprises with all these desirable benefits in their quest to adopt AI for digital excellence.

Our Google Cloud Offerings

Blue Altair provides a bouquet of end-to-end services across the cloud portfolio that can help enterprises design, build and operate their Google Cloud services for digital transformation initiatives. Our Google-certified experts are highly experienced in building complex and scalable business solutions. Blue Altair excels in six key Google Cloud service offerings:

Cloud Consulting and Strategy

We assess our clients' readiness for cloud adoption, define their vision, build the roadmap and develop a Google Cloud-based strategy to meet their business demands.

Application Modernization

We help our clients to modernize legacy applications using Cloud-First and API-First approach. We build high performing, scalable and feature-packed applications using a multitude of programming languages and cloud native technologies like microservices, DevOps, containers and serverless platforms.

Generative AI and Machine Learning

We build next-gen agentic applications using various LLMs and data science technologies like deep learning, NLP, computer vision, and others.

Cloud Migration

We assess our clients' current state of infrastructure, understand the cost and benefits of migrating to the cloud, and lift and shift on-premise applications and data to Google Cloud.

Data Platform Modernization

We develop scalable and highly available data lakes and data warehouse platforms on Google Cloud, and seamlessly move legacy databases to the cloud without disrupting business operations.

Cloud Security

We implement robust security for cloud infrastructure, applications, and data services for regulatory compliance, and protect data and applications from various threats and vulnerabilities.

A Closer Look At Our Offerings

Cloud Consulting and Strategy



Catalog of Services

- Assess on-premise infrastructure and workloads for cloud readiness
- Define strategy and roadmap for Google Cloud adoption to migrate VMs, lift-and-shift applications, refactor and migrate monoliths
- Define cloud security strategy to protect data and applications migrated to Google Cloud
- Define governance and risk mitigation approach
- Define an approach for sustainable infrastructure and optimize cloud strategy with containers and serverless platforms
- Define strategy for resilience, sustainability, backup and disaster recovery with Google Cloud

Technology Expertise

- Cloud architecture design and setup using all major cloud computing services from Google
- Cloud security implementation and best practices
- Data and applications migration to Google Cloud
- Cloud cost optimization services using cost calculator, cost allocation tags and reserved instances
- Business needs and requirements analysis to identify opportunities for cloud adoption and optimization
- Cloud DevOps practices for automated build, deploy test and infrastructure provisioning
- Project management and governance methodologies to plan, execute and monitor cloud adoption and migration

Cloud Migration



Catalog of Services

- Assess on-premise applications and data to determine best fit for migration to Google Cloud and modernization
- Plan and design the migration process for moving application and data to Google Cloud
- Migrate applications and data to Google Cloud
- Migrate APIs to Apigee X and Apigee Hybrid
- Cross cloud integration of applications and data

Technology Expertise

- Google Cloud infrastructure services viz: virtual machines, networking and storage services
- Google Compute services viz: Compute engine, GKE and App Engine, Cloud Run, Cloud Functions, Cloud SDK
- Data Storage services viz: BigTable, Cloud SQL, Firestore, Cloud Spanner
- API Management platform viz: Apigee Edge, OPDK, Apigee Hybrid and Apigee X
- DevOps and automation service viz: Cloud Build, Cloud Deployment Manager, Terraform and Ansible

Application Modernization



Catalog of Services

- Assess legacy applications for modernization
- Refactor and rearchitect applications using an API-First and cloud-native approach
- Monolith to microservice decomposition and cloud-native application development
- Manage and securely expose APIs for ecosystem partners
- Next-gen quality assurance for improved resiliency, scalability and security
- Full stack application monitoring for performance, security and incident management
- Accelerate your AI enablement using Google's Vertex AI and other cloud services for AI/ML

Technology Expertise

- Compute services viz: Compute Engine, Cloud Run, Cloud SDK
- Container services viz: Anthos, Google Kubernetes Engine, App Engine, Cloud Run, Cloud Functions
- Database services viz: BigTable, Cloud SQL, Firestore, Cloud Spanner
- API Management with Apigee X and Apigee Hybrid
- Cloud Security services viz: IAM, Cloud Armor, re-CAPTCHA
- Networking services viz: VPC, Cloud CDN, Cloud NAT, Cloud DNS, Cloud Load Balancing, Hybrid Connectivity
- Application development and management services viz: App Hub, Vertex AI, Gemini Code Assist, Firebase studio with Gemini, Document AI, NLP Services and AgentSpace for creating Agentic AI solution

Data Platform Modernization



Catalog of Services

- Cloud data lake setup for structured and unstructured data storage
- Data warehouses modernization and setup on cloud
- Seamless and non-disruptive data migration and security on cloud
- Intelligent cloud data governance to efficiently manage data assets on the cloud
- BI modernization
- Accelerate database modernization on Google Cloud by integrating AI to intelligently process, analyze, classify, and summarize data

Technology Expertise

- Real time data storage using Cloud SQL, Cloud Big Table and Cloud Spanner
- Data lake using Google Cloud Storage
- Cloud data warehouse using Big Query
- Data mining and exploration using Cloud Dataproc and Datalab
- Data governance using Cloud Data Catalog
- Data visualization using Looker
- Integrated machine learning and automated model training - BigQuery ML
- Multimodal intelligence using Gemini on BigQuery Data

Generative AI and Machine Learning



Catalog of Services

- Generate insights from big and streaming data
- Develop and fine tune AI models
- Process text using pretrained natural language models
- Build RAG enabled generative AI applications with responsible and ethical guidelines
- Develop computer vision applications
- Track the performance of machine learning models, detect data drift, and ensure models remain effective over time
- Develop and implement AI-driven solutions customized for specific business domains to deliver targeted, high-impact outcomes

Technology Expertise

- High volume data processing using BigQuery, Data Proc and DataFlow
- Machine Learning using Vertex AI, Vertex AI Workbench, AutoML, DataLab
- Natural Language Processing using Dialogflow, Natural Language API, Speech API, Translation API
- Deep learning using Deep Learning Containers, TensorFlow, PyTorch
- Video and Image processing using Video Intelligence API, Vision API
- Model monitoring through Vertex AI Platform
- Implement solution based on Google's AI services tailored for Financial Services, Healthcare & life sciences

Cloud Security



Catalog of Services

- Build end-to-end zero trust security models
- Configure network and storage security
- Design and implement application and container security
- Review security vulnerability, gaps and compliance, and provide risk assessments
- Implement security monitoring and response
- Secure AI workload and AI applications

Technology Expertise

- Smart access control using Cloud IAM, Cloud Identity and reCAPTCHA
- Secure data encryption using Cloud KMS, Secret Manager and Certificate Authority Service
- Sensitive data handling using Cloud Data Loss Prevention
- Network security using Cloud Armor, network firewall and VPC service controls
- Implement SAIF framework and use Google's AI protections tools and services viz. AI Protection, Cloud Intrusion detection service (IDS) and Security Command Center

Addressing Industry Problems with Google Cloud

Blue Altair has extensive experience in delivering Google Cloud services to clients. Below are two examples of how Blue Altair has helped our clients implement services on Google Cloud.

Large Financial Services Company in North America

Goal

To assess and migrate their on-premise API management platform to Apigee X on Google Cloud.

Project

We set up a secure VPC network on Google Cloud, connecting to their on-premise system using partner interconnect with high availability (HA) configurations.

Outcome

This migration helped our client reduce cost and the overhead that was associated with maintaining an on-premise API management platform. It also helped the company in providing an enhanced customer experience with improved security, reliability, uptime, and auto-scaling.

Large Infrastructure and Construction Company in Australia

Goal

To manage the organization's assets and properties using Google Cloud data services.

Project

We built a scalable data platform that collected incoming data from multiple data sources such as sensors, IoT devices, meters and other devices which were consolidated and used to generate strategic business insights. Furthermore, we classified the data using Google Cloud Data Catalog and built an enterprise data warehouse solution using Big Query and Data Studio to provide insights for assets and property management.

Outcome

As a result, our client was able to build a sustainable platform and improve their operational efficiency.

Online Auto Auctioneer

Goal

To create a scalable, user-friendly auction platform for seamless dealer-consumer vehicle transactions and implement an "Instant Cash Offer" feature for quick car valuation.

Project

Since April 2022, Blue Altair has developed the auction platform on Google Cloud Platform (GCP), defining user journeys, creating architectures, and delivering design and functional requirements.

Outcome

The platform enables efficient vehicle auctions and real-time car valuation in under two minutes, supported by a scalable and cost-effective GCP-based architecture.

Large IT Company with a solution for marketing agencies in Australia

Goal

To provide AI driven platform for Marketing Campaign Management using Google Cloud Services

Project

Blue Altair, assessed and recommended an advanced AI-based solution for advertising agencies, providing them with an automated bidding adjustment framework and health check system for Google Ads to enhance campaign performance using Google Big Query and integration services with a user-friendly interface for campaign management and monitoring.

Outcome

As a result, the client gained more granular control over bid adjustments and segmentation, which improved ad relevance and potentially lowered cost-per-click (CPC). Automated performance-based adjustments for Ad Groups (Max CPC & Max CPV) ensured continuous improvement and better conversion rates. They were able to automate bid optimization based on location, device, time, age, gender, and income to ensure ads reach the right audience at the right time for maximum ROI and freeing up time for strategic decision-making, reducing the manual efforts significantly.

About Blue Altair

Blue Altair is a niche, industry-recognized business and technology consulting firm that assists our clients with digital transformations. We offer Assessment and Strategy, Technology Implementation, and Managed Services in API Management and Integration; Data Management; Digital Application Development; and Data Science and AI. Our Client Success capability ensures a higher-than-industry rate of successfully delivered projects, with a primary focus on program and project management, business analysis, and quality assurance. Blue Labs is our innovation hub, where we use cutting-edge technology to build offerings that deliver accelerators and solutions. Our culture is the heart of our existence, and our core values are the key drivers for our handpicked, top-tier performers.

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