

# Our Google Cloud Partnership

## Driving digital excellence through innovative cloud services

Every business today aims to reduce total cost of ownership through agile, scalable and efficient IT environments. 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 digital excellence journey.

## 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.

### Smart Analytics and Business Intelligence

We build next-gen applications using various data science technologies and techniques like AI/ML, 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

### 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

## 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

### 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

## Smart Analytics and Business Intelligence



### Catalog of Services

- Generate insights from big and streaming data
- Develop supervised, unsupervised and semi-supervised machine learning models
- Process text using pretrained natural language models
- Fast-track building of deep learning models with explainable results
- Develop computer vision applications

### Technology Expertise

- High volume data processing using BigQuery, Data Proc and DataFlow
- Machine Learning using Vertex AI, 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

## 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

### 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

## Case Studies: 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.

### Client 1: 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.

### Client 2: 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.

# The Blue Altair Promise

At Blue Altair, we understand cloud infrastructure and services are critical in helping businesses define a winning strategy. Our mission is to drive innovative solutions to keep business strategies ahead of the curve by adopting transformative technologies, streamlining technical capabilities and maximizing ROI. Regardless of project size, we pride ourselves on delivering the best value for your investment. Blue Altair's biggest strength is our combination of integrity with excellence, and that's our commitment to you: results that exceed your expectations and earn your trust for future business needs.



## 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.

[info@bluealtair.com](mailto:info@bluealtair.com) | [www.bluealtair.com](http://www.bluealtair.com)

1530 Wilson Blvd., Suite 650  
Arlington, Virginia 22209 USA  
+1 703 721 7275



United States | India | Australia | Argentina