Amach's

Cloud Optimization for Airlines

Helping airlines maximize the value of their cloud investments by eliminating waste, improving performance, and aligning cloud infrastructure with operational and business goals before migration occurs.

Problem Statement

As airlines increasingly depend on cloud platforms to run mission-critical systems many fall into the trap of migrating entire workloads without addressing legacy inefficiencies. This leads to infloted cloud costs, underutilized resources, poor scalability, and ongoing operational complexity.

Key Issues:

Solution

Pre-Migration Waste Elimination



Migrating redundant or unsupported applications drives unnecessary cloud costs.

Problem

Conduct full rationalization and transformation to eliminate obsolete systems and optimize the footprint prior to cloud onboarding.

Cost Efficiency and FinOps



Lack of visibility into cloud cost drivers, idle resources, and over-provisioning.

Apply FinOps practices such as cost allocation, rightsizing, and idle resource management to optimize cloud spend.

Performance Optimization



Poor resource scaling during peak travel periods impacts the passenger experience.

Implement auto-scaling, load balancing, latency optimization, and real-time monitoring to meet performance needs.

Resource Utilization



Continuously running workloads and static resource allocations lead to waste.

Use serverless architectures, containerization, and storage tiering to optimize resource allocation and minimize idle costs.

Scalability and Flexibility



On-premises environments require significant capital investment to scale.

Leverage elastic cloud infrastructure that can scale up or down based on demand, with region-based deployments.

Security and Compliance



Growing security risks and complex compliance obligations for aviation data.

Implement cloud-native security controls, ID management, encryption, and compliance frameworks .

Governance and Automation



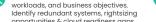
Inconsistent development standards and manual operations lead to inefficiencies and governance gaps Introduce policy-based governance, automation using IaC, and continuous optimization processes .

Cloud Optimization Framework



Discovery and Assessment:

Review current cloud infrastructure, workloads, and business objectives. opportunities & cloud readiness gaps.



FinOps Implementation:

Apply cost governance models and automated scaling policies. Establish reserved instances, savings plans, and workload-based consumption models.

Security and Compliance Alignment: Integrate security frameworks with

automated monitoring, threat detection, and access controls. Maintain ongoing compliance with GDPR & aviation regulations.

Pre-Migration Rationalization:

Remove non-essential workloads, unsupported applications, and redundant data. Prepare a lean, efficient workload for cloud migration.



Architecture Modernization:

Design modern cloud architecture using serverless, containers, and distributed workloads.

Align architecture with business SLAs, compliance & performance requirements.



Continuous Optimization and Governance:

Establish continuous cloud cost reviews. policy enforcement, and automation pipelines.

Adapt configurations to match evolving business and regulatory needs.

Benefits & Business Impact



Cost Savings



Faster Migration ROI



Improved Performance and Availability

Increased Resource Efficiency



Stronger Compliance and Data Residency

Operational Agility





Ready To Learn More?

Amach helps airlines optimize their cloud environments by modernizing workloads prior to migration, eliminating cost waste, and delivering scalable, efficient cloud operations aligned to aviation industry needs.



14 Clanwilliam Square, Dublin

amach.com

✓ sales@amach.com