

Enhancing On-Premise Database Management for Airline Operations

Delivering robust support for the comprehensive management of on-premise database services on local servers to ensure optimal performance, security and availability.

Problem Statement

Airlines manage crucial data on in-house databases, which requires extensive infrastructure, hardware, and software. Maintaining these on-premises database services demands meticulous management to uphold performance, security, and availability, presenting numerous challenges:

Challenges



Resource Retention:

Managing on-prem databases typically requires more resources, contrasting with potential operational cost savings when moving to cloud-based Database Services (RDS).



Security & Authentication Requirements:

Managing on-prem databases typically requires achieving high-level security standards, such as mutual authentication and secure certificate management.



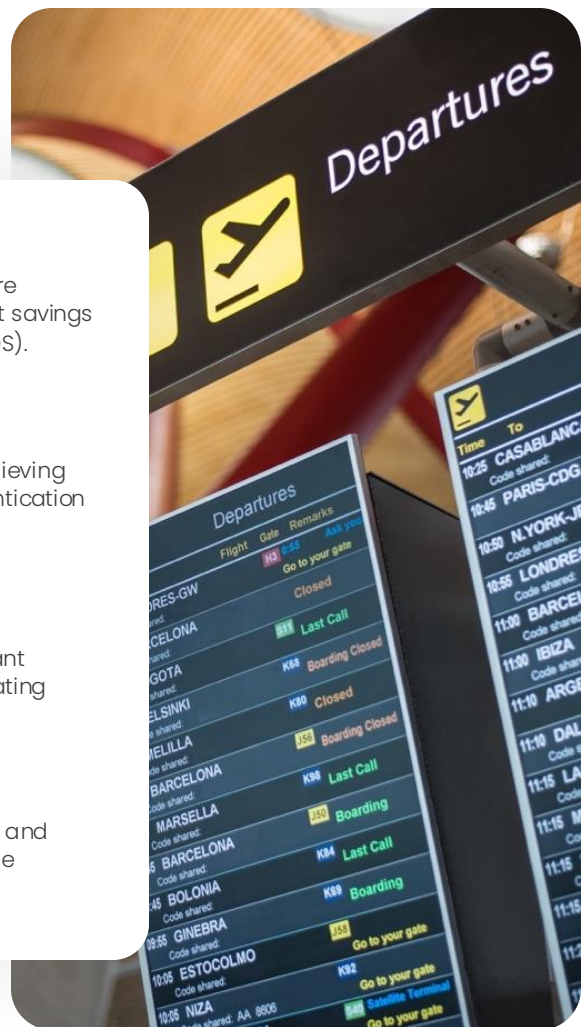
Regulatory Compliance:

Adapting to regulatory changes often poses significant challenges for on-prem setups, sometimes necessitating transitions to cloud solutions for compliance.



Software Updates:

On-prem systems require manual planning, building, and deploying of patches and updates, missing out on the automation offered by cloud providers.



The 6 R's of On-Premises Database Management:

Rehosting:

Databases between on-site servers, which may involve upgrading hardware or changing physical locations without altering the infrastructure.

Retaining:

Keeping certain databases on-premise when technical constraints or the complexity of migration make cloud transition infeasible.

Retiring:

Decommissioning obsolete databases by implementing secure backup, shutdown, and storage protocols.



Re-platforming:

Upgrading the infrastructure or operational systems to enhance database performance and efficiency on-site, without complete re-architecting.

Re-Purchasing:

Transitioning from outdated on-premises solutions to modern SaaS-based licenses for managed software.

Refactoring/Re-Architecting:

Modernizing and restructuring on-premise databases to improve performance, scalability and reliability.



Results/Benefits



Total Control and Ownership:

Retain complete control over data and system management, critical for sensitive airline operations.



Physical Control:

Direct oversight of physical servers enhances control over the hardware environment.



Enhanced Security:

Tailor security measures to meet specific operational needs and environments directly.



Immediate Data Access:

Faster access to data without the latency associated with cloud services.



Regulatory Compliance:

Easier compliance with aviation and data protection regulations through customized on-premises solutions.




Customization:

Ability to customize the environment extensively to meet specific operational demands.

Ready to
Learn More?

Contact Us Today to Explore Our On-Premise Solutions.

 14 Clanwilliam Square, Dublin

 amach.com

 sales@amach.com