

SkyBridge Airline API – Secure Architecture Overview

This document summarizes the secure architecture design of the SkyBridge Airline Partner API Platform.

Security Layers:

1. WAFv2 protecting REST API (SkyBridge-REST)
2. API Gateway REST API with:
 - Cognito JWT Authentication
 - API Keys & Usage Plans
 - Schema Validation (JSON Schema)
3. Lambda functions for each business domain
4. DynamoDB tables for persistence
5. SNS Topic for baggage events
6. CloudWatch Logs, AWS Config, AWS Budgets
7. Legacy HTTP API for Phase 1 (Flight, Ticketing, Baggage)

Request Flow (Booking Endpoint):

Client → WAF → API Gateway (JWT + API Key + Schema Validation)

→ Lambda (skybridge-booking)

→ DynamoDB (skybridge-bookings)

→ CloudWatch Logs