AIR LEGACY E-Commerce Platform - AWS Architecture

DEPLOYMENT & CI/CD PIPELINE

GitHub Source Code → GitHub Actions CI/CD → SECURITY SCANS (🔒 tfsec 🛡️ Checkov 🔍 Trufflehog) → Terraform Infrastructure → IAM OIDC Role (No Keys!) → AWS Deploy

FRONTEND LAYER

Customer ← Amplify Shop (shop.aws.his4irness23.de) — Next.js 14

Admin → Amplify Admin (admin.aws.his4irness23.de) — Next.js 14

API & AUTHENTICATION LAYER

Route53 DNS → ACM SSL Certs → API Gateway (api.aws.his4irness23.de) REST API ⇢ Cognito User Pool Admin Group

CloudFront Assets CDN

BACKEND & DATA LAYER

DynamoDB 4 Tables 3 GSI

EventBridge Daily Security Scan (8 AM UTC)

Lambda Backend Express.js Node.js 20 16 REST Endpoints

CloudWatch Logs

S3 Bucket Images + Assets

EXTERNAL SERVICES

Stripe Payments — Checkout Sessions

Resend Email Service — Order Confirmation

SUPPORTING SERVICES

IAM Access Analyzer

SNS Security Notifications

Daily Alerts