Clearscale

Case Study

Embedding Compliance Into Every AWS Deployment

Clearscale designed reusable Terraform modules that gave a global airline speed, security, and governance in the cloud.

Client Profile

Industry: Consumer Services

Technology: Dev Ops, Travel and Hospitality

Overview

A global airline needed a more efficient, secure way to manage its cloud infrastructure. Disconnected Infrastructure-as-Code (IaC) practices slowed deployments, created inconsistencies, and complicated compliance. Clearscale designed a library of reusable Terraform modules with built-in security, compliance, and operational best practices. The result: faster, safer deployments and a stronger governance foundation.

Meet Our Hero:

This airline operates in one of the world's most regulated industries, where reliability and security are paramount. With hundreds of applications running in the cloud, its teams struggled to maintain consistency across environments.

Developers relied on fragmented infrastructure code, leading to slower delivery cycles, duplicated effort, and gaps in compliance. Leadership knew they needed a standardized, scalable approach to Infrastructure-as-Code that could speed up innovation while reducing risk.

The Goal

- Consolidate Infrastructure-as-Code strategy on Terraform
- Provide standardized, reusable modules for AWS services
- Embed security and compliance into every deployment
- Automate validation and reduce errors
- Improve governance, collaboration, and developer velocity

The Problem

Problem 01

Disconnected and inconsistent Infrastructure-as-Code practices

Problem 02

Time-consuming deployments slowed developer productivity

Problem 03

Risk of errors and configuration drift across environments

Problem 04

Security and compliance were not embedded in every build

Problem 05

Lack of reusable modules created inefficiency and duplication

The Solution

Clearscale designed and delivered a comprehensive library of Terraform modules tailored for the airline's AWS environment.

Step 01: Reusable Modules

- Created ~20 Terraform modules covering critical AWS services
- Delivered secure defaults, including encryption, IMDSv2, and no public IPs

Step 02: Security by Default

- Applied KMS key rotation, enforced backups, and hardened S3
- Built modules to align with compliance and governance requirements

Step 03: Automated Validation

- Integrated TFLint for static code analysis
- Embedded Wiz scans for security and compliance checks

Step 04: Operational Best Practices

- Enabled consistent logging and monitoring with CloudWatch and CloudTrail
- Documented all modules and maintained version-controlled repositories

Step 04: Developer Empowerment

- Gave teams a standardized foundation to accelerate deployments
- Reduced errors and complexity, while ensuring every build followed best practices

The Impact

Improved IaC maturity, with a standardized Terraform strategy

Faster deployments, as teams reused secure modules

Reduced errors, through automated validation and secure defaults

Stronger governance and compliance, embedded directly into infrastructure builds

Enhanced collaboration, with shared, documented modules across teams

Turn Cloud Chaos Into Clear Results On AWS

Clearscale helps airlines and enterprises break free from cloud chaos and experience clear results on AWS. If your deployments are slowed down by inconsistency and risk, let's talk.

Talk to an Engineer

aws PARTNER Premier Tier Services