



Greenfield Telecom Service Switching Platform

Revolutionizing Telecom Service Migration with Cloud-Native Agility - Greenfield

Posted on September 7, 2025 by Admin

A 3D graphic illustration on a dark blue background. It features a glowing blue cloud with a grid pattern on its surface. From the base of the cloud, several glowing blue lines representing network connections or data paths extend downwards and across a faint world map. The lines are styled as thick, glowing tubes with small circular nodes at their endpoints.

Greenfield Telecom Service Switching Platform

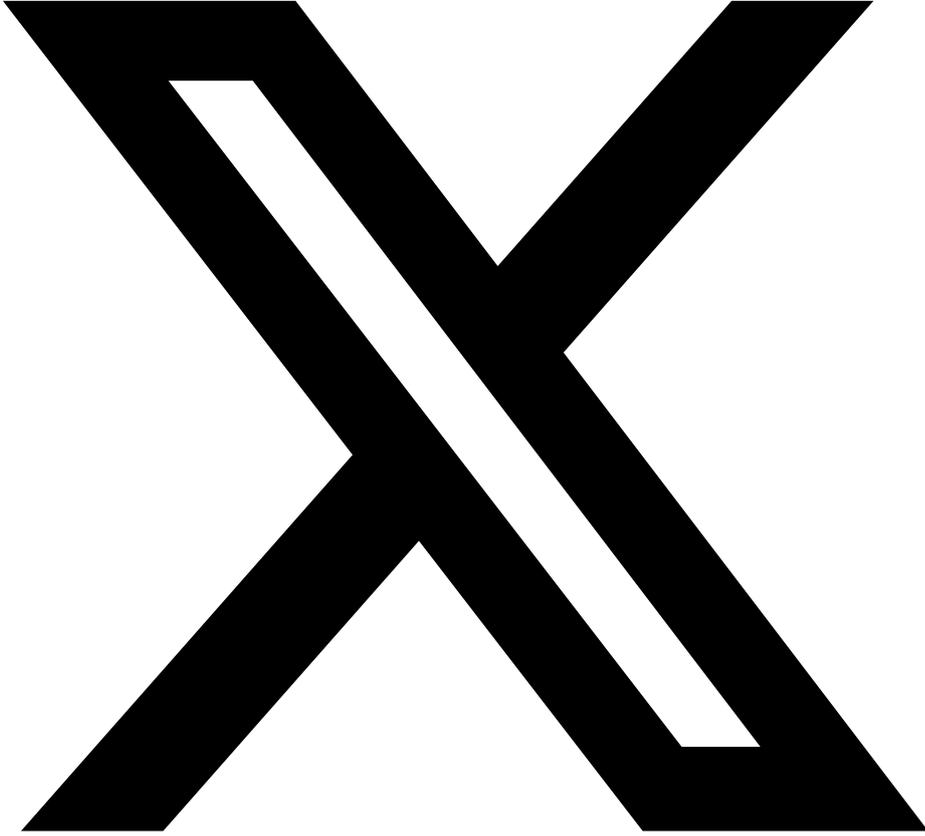
Revolutionizing Service Migration with Cloud-Native Agility

Case Study



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**Greenfield Telecom Service Switching Platform
Revolutionizing Service Migration with Cloud-Native
Agility**

Client

A Leading telecom provider, needed a robust and future-ready system to enable seamless transitions between broadband and landline service providers without disrupting customers or operations.

This was a greenfield initiative: no legacy to refactor, but also no system to build upon. Speed, security, and scalability were non-negotiable.

That's where TechTez stepped in.

The Challenge

In the dynamic telecom landscape, portability and provider-switching workflows are often slowed by rigid systems and manual handovers.



- resilient backend

A self-healing,



- frictionless data workflows

Secure and



- components for future adaptability

Modular



- native foundation

A reliable AWS-

Our Strategy:

We architected and delivered an end-to-end cloud-native solution using AWS services, modern DevOps, and microservices principles. The system now handles:



- **Switching at Scale** : Across regions and providers

Service



- **Integration** : With DNS routing, email, and SMS workflows

Seamless API



- **Processing** : Leveraging Fargate and Lambda

Event-Driven



- **Orchestration** : Using Camunda BPM for business logic

Workflow

Tech Stack:



- **Built for Scale & Resilience** : Using Amazon ECS + Fargate across 3 availability zones, we ensured zero-downtime deployments with auto-scaling built in.



- **Secure by**
Design: AWS Shield, WAF, and parameter store manage access, policies, and secrets across services.



- **Intelligent Workflow Management:** Camunda BPM powers decision logic and stateful transitions for each switching request.



- **Smart Data**
Layer: The system leverages DynamoDB for performance and Aurora Serverless for critical persistence ensuring both speed and durability.



- **Async**
Processing at Its Best: Apache Artemis + EFS enable durable queue management and high-throughput message delivery between distributed components.



- **Communication Made Seamless:** AWS SES/SNS allow for real-time status alerts and automated transactional messaging to users and administrators.

Impact & Results:



- containerized platform using AWS CDK

Delivered a fully



- switching request latency by over **60%**

Reduced

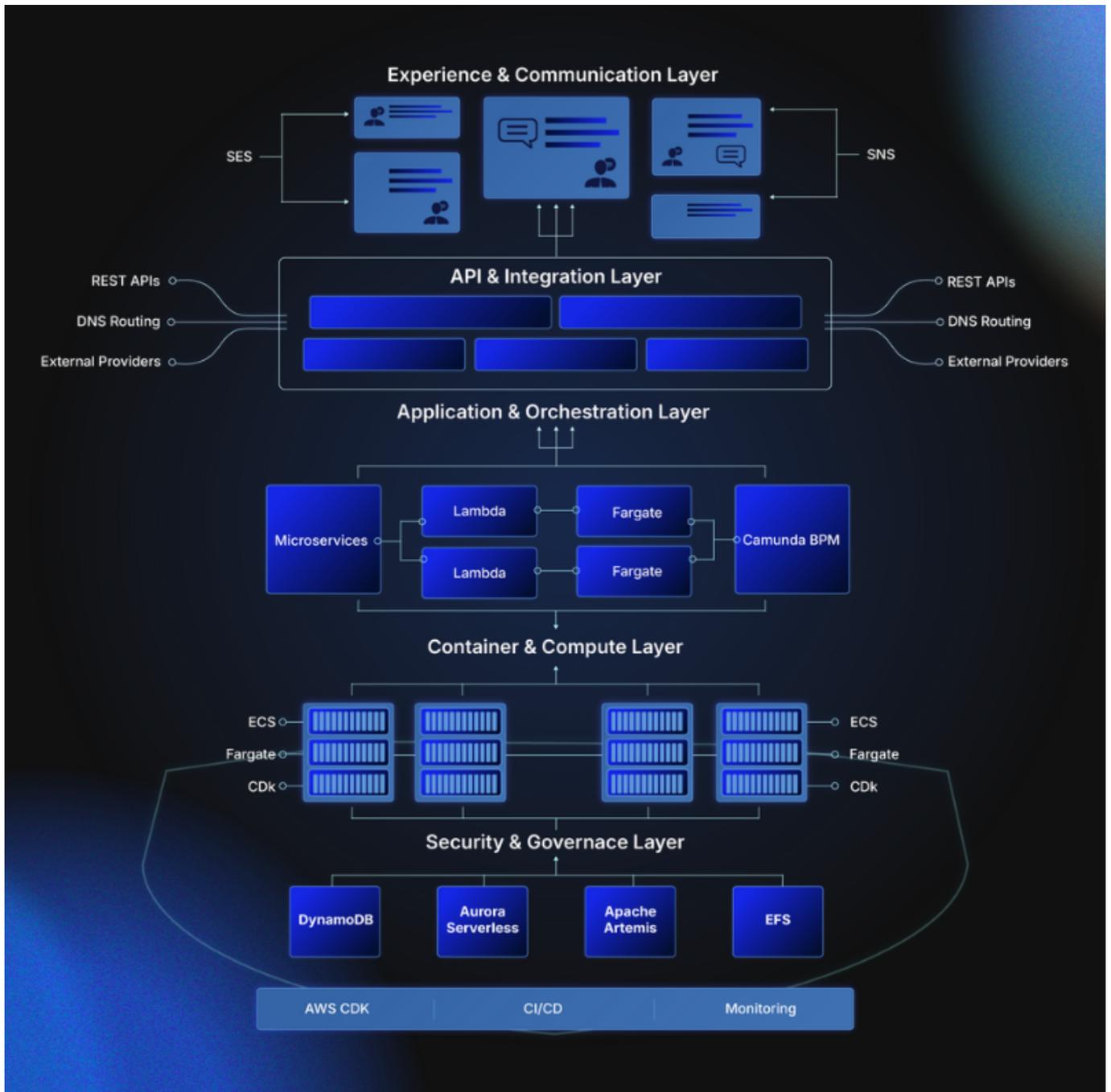


- zero downtime during peak test simulation

Achieved near

We didn't just build for specs we built for intent.

With TechTez, every architecture is modular, every decision data-backed, and every sprint driven by impact, not just output.

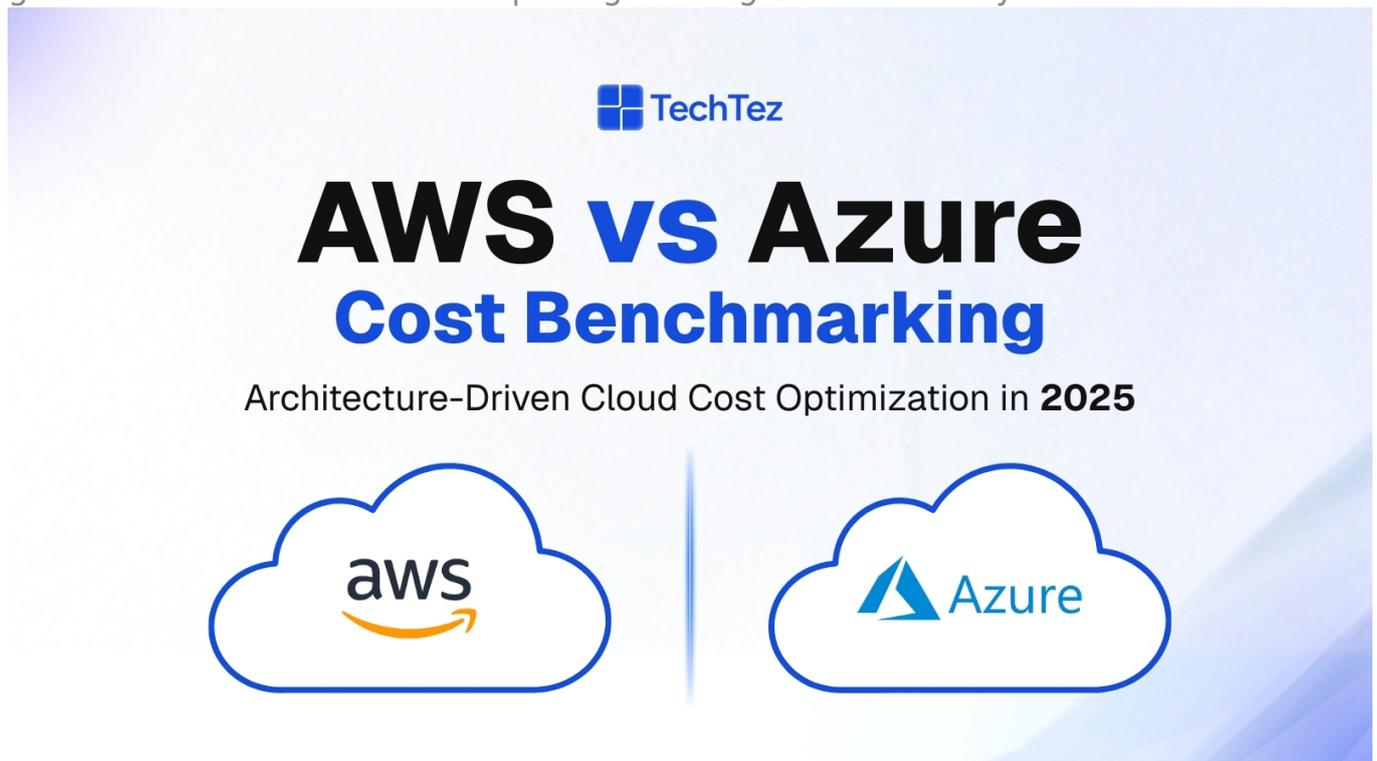


Our Thought Leadership Guides

- Case Study

[AWS vs Azure Cost Benchmarking: Architecture-Driven Cloud Cost Optimization in 2026](#)

Compare AWS and Azure cloud costs and learn why architecture, automation, and governance matter more than pricing for long-term efficiency.



- Case Study

[Agentic AI Assistant Framework for Autonomous Task Execution](#)

An agentic, multi-agent AI assistant that plans, executes, and completes tasks via secure tool orchestration and live APIs turning user prompts into real outcomes like bookings and itineraries.



Agentic AI for **Autonomous Workflow Automation**

From natural language to automated restaurant discovery and table reservations end-to-end, without manual steps.

- Case Study

[AI-Driven Dermatology Platform for Accurate Diagnosis and Secure Digital Care](#)

A mid-sized SaaS company specializing in HR and payroll management faced a growing barrier:



Building an Intelligent AI-Driven Dermatology Platform for Accurate Diagnosis and Digital Care

Secure, AI-Powered Skin Analysis with Human-in-the-Loop Clinical Validation