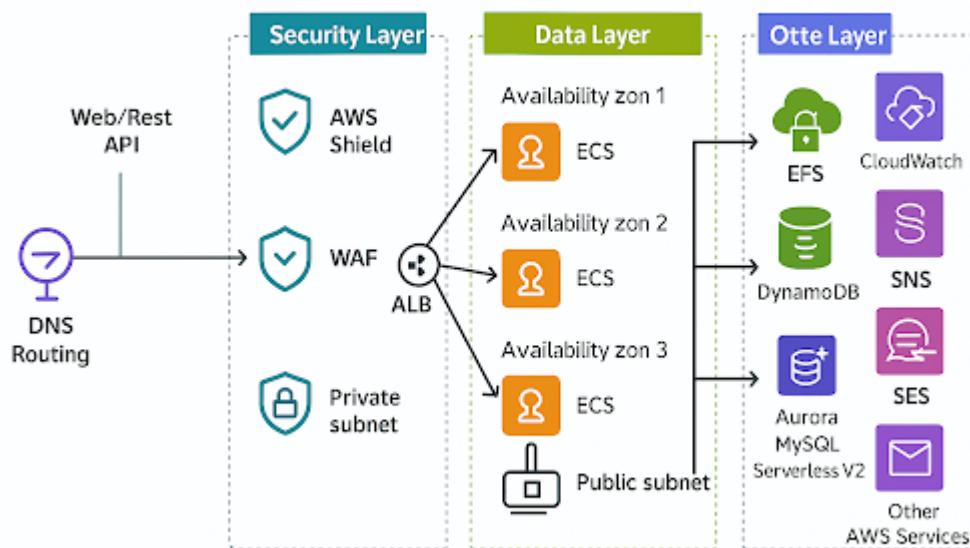


Greenfield Telecom Service Switching Platform Revolutionizing Service Migration with Cloud-Native Agility

Posted on September 7, 2025 by Admin

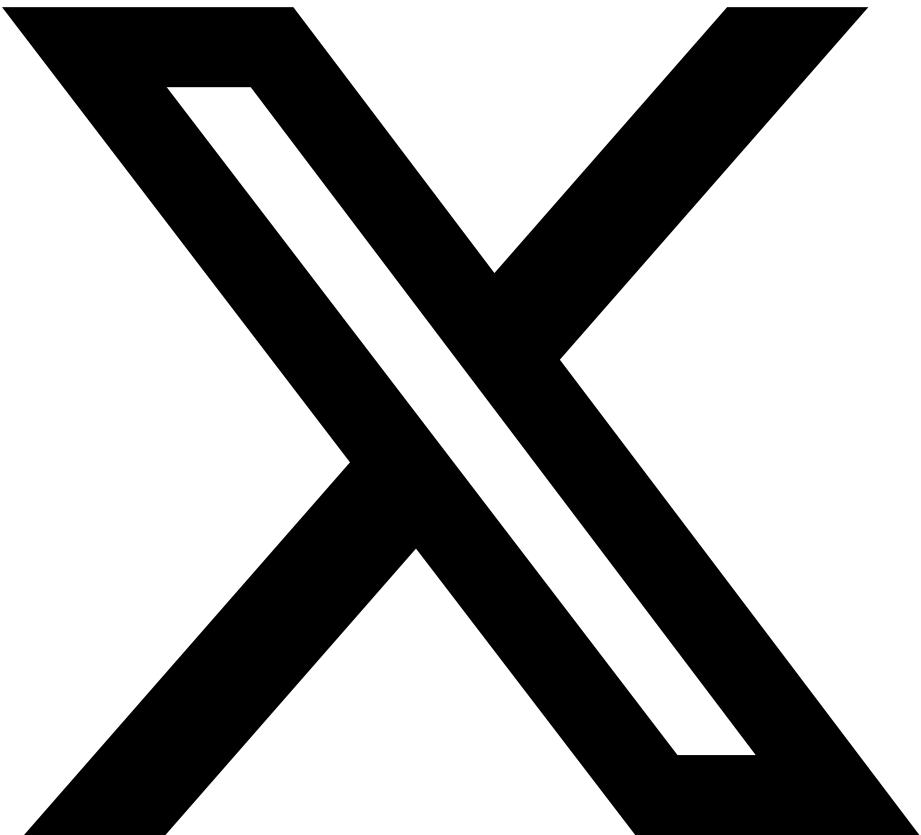


Case Study



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

Client

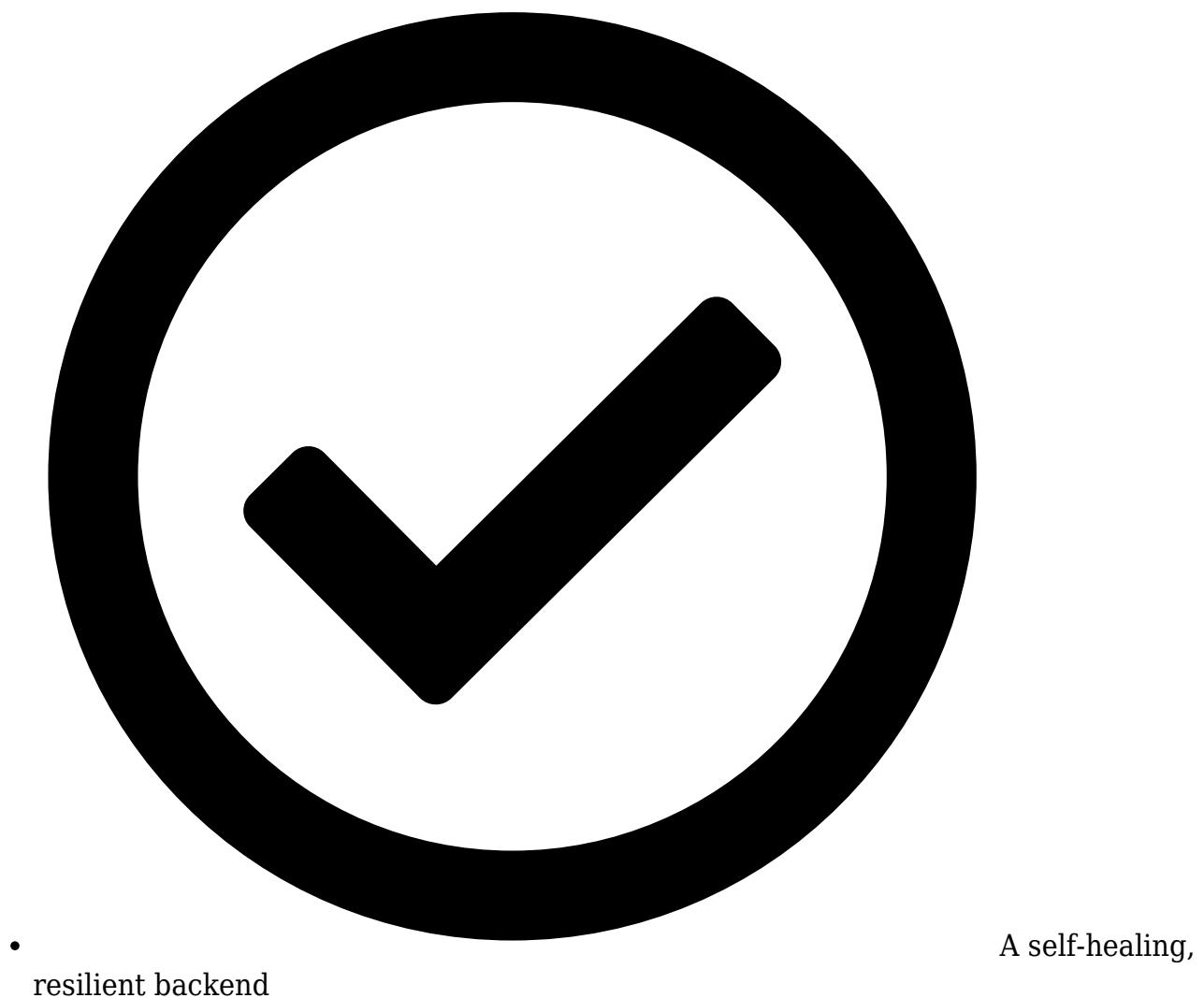
A Leading telecom provider, needed a robust and future-ready system to enable seamless transitions between broadband and landline service providers without disrupting customers or operations.

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.

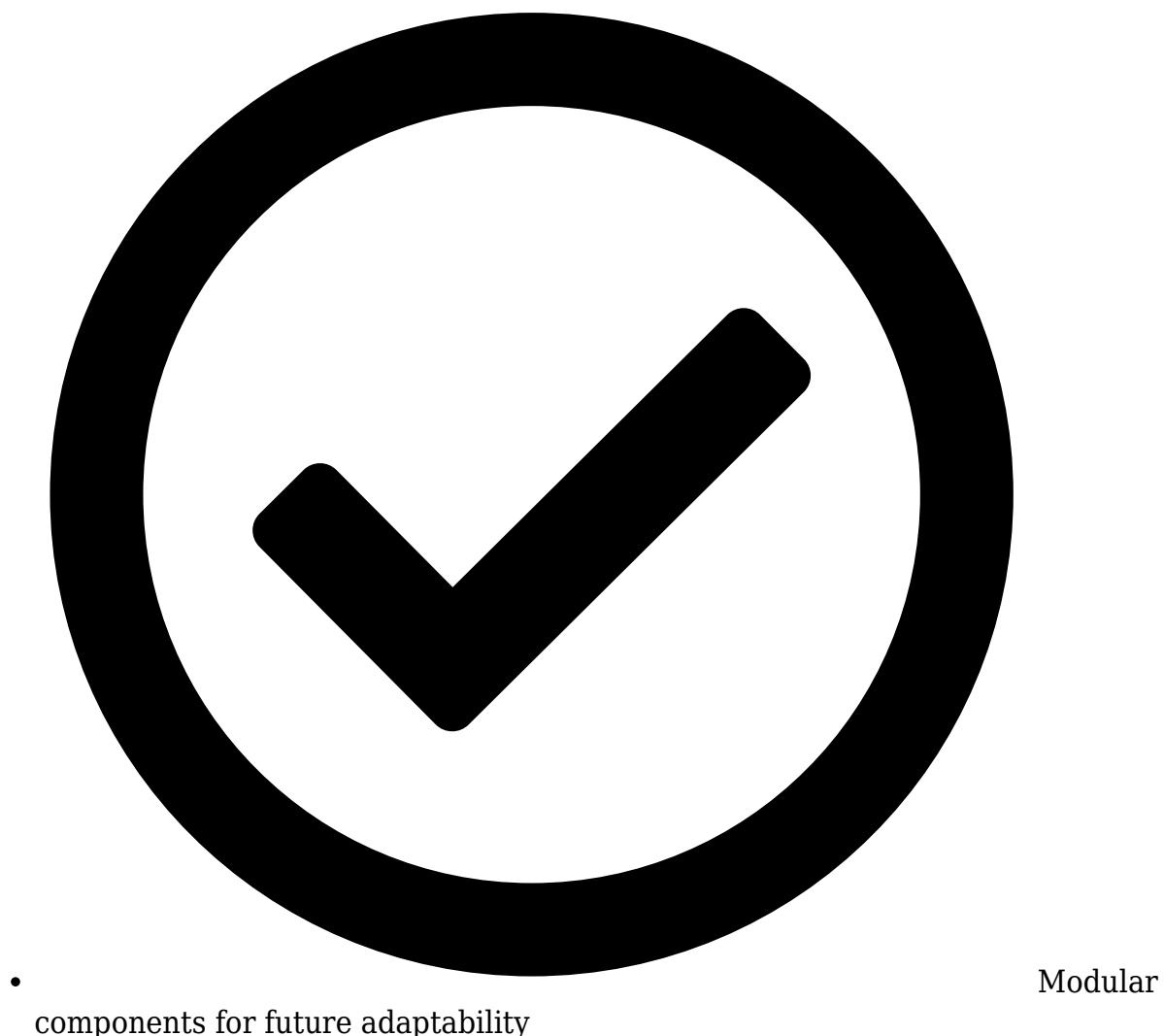


- A self-healing, resilient backend



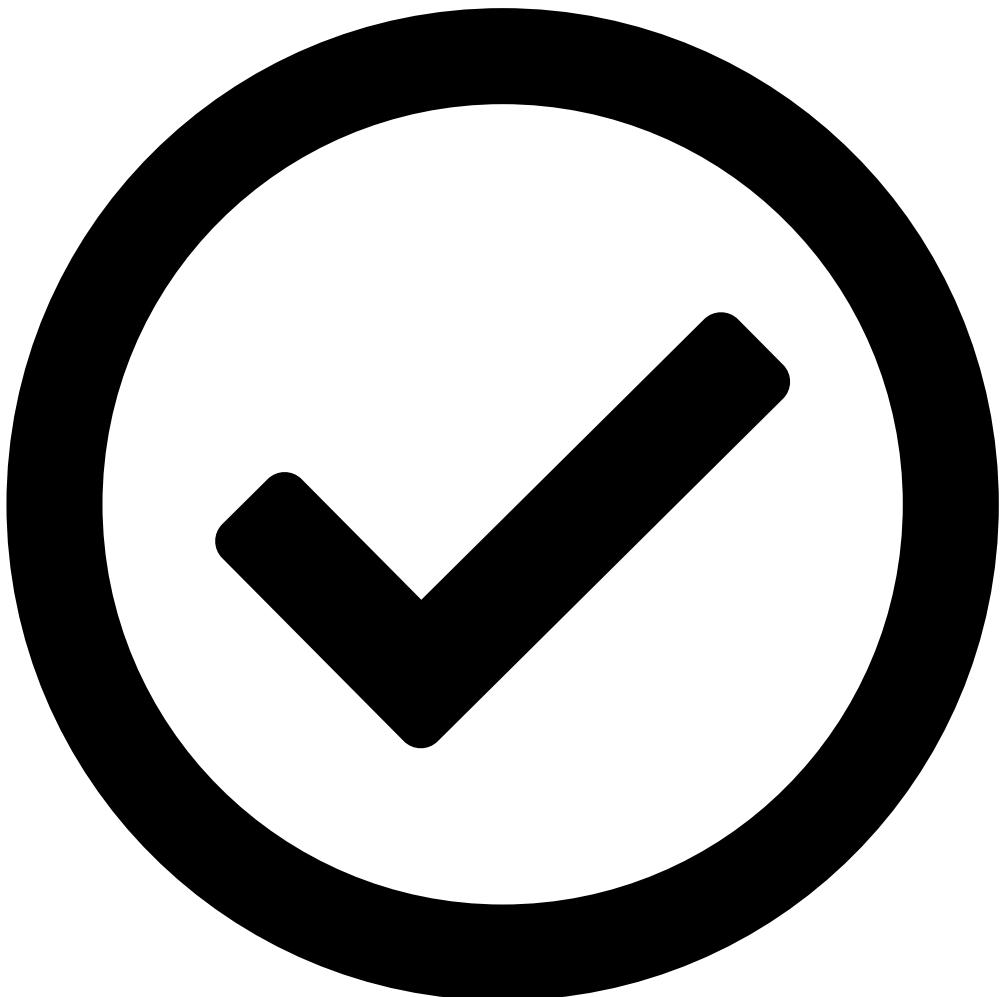
- frictionless data workflows

Secure and



- components for future adaptability

Modular



- A reliable AWS-native foundation

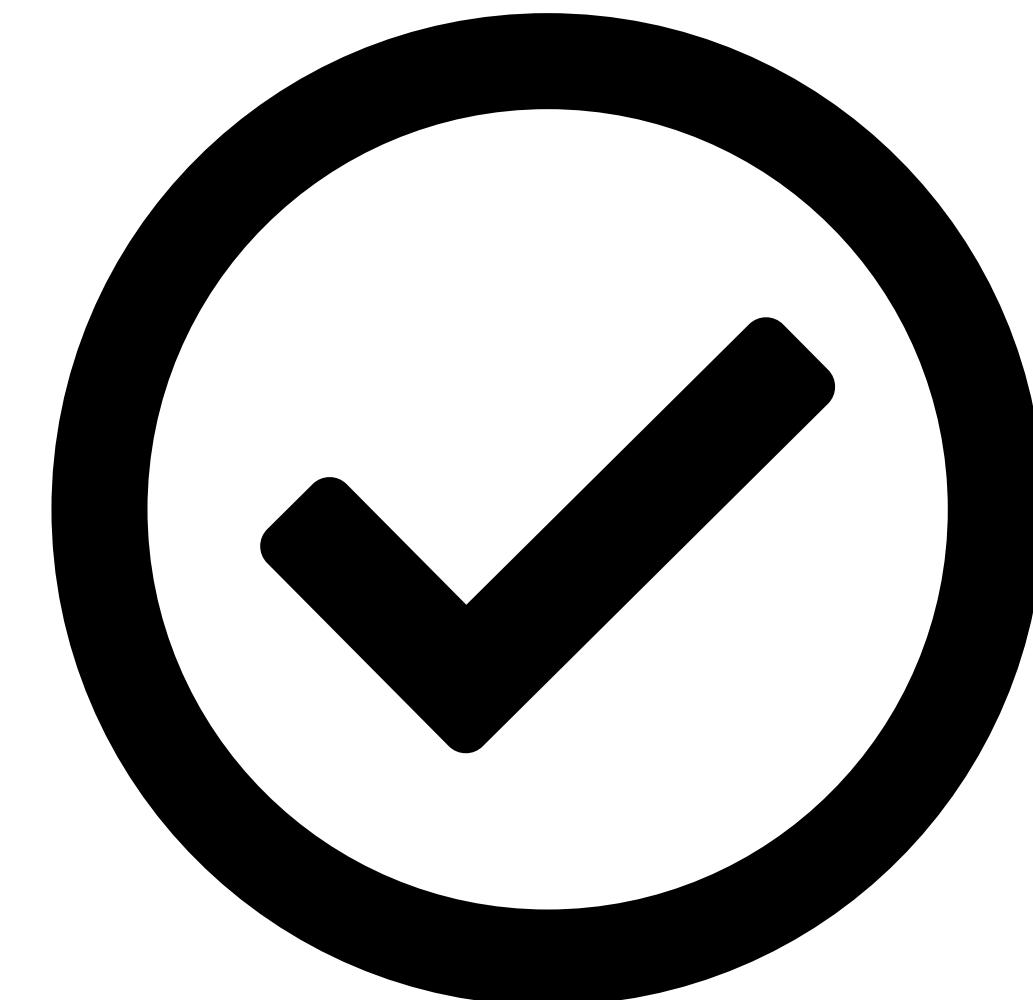
Our Strategy:

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

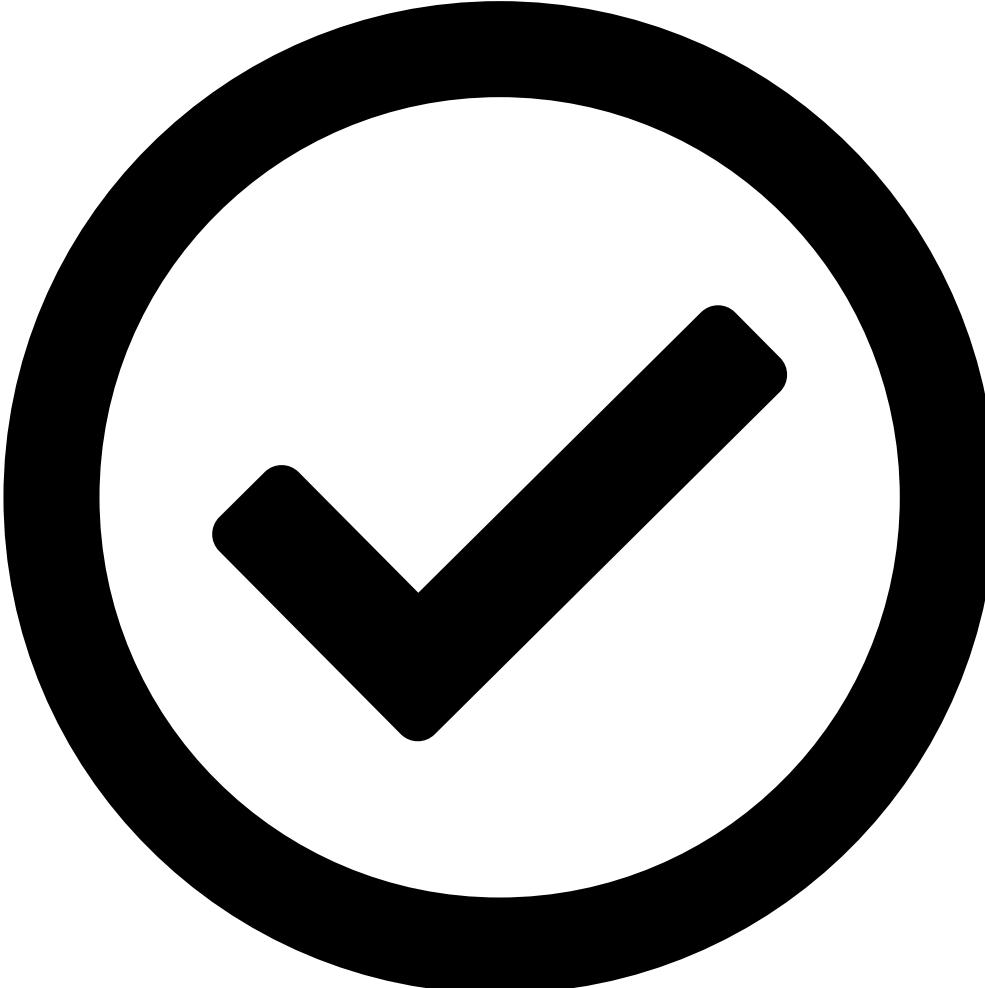


- **Service**

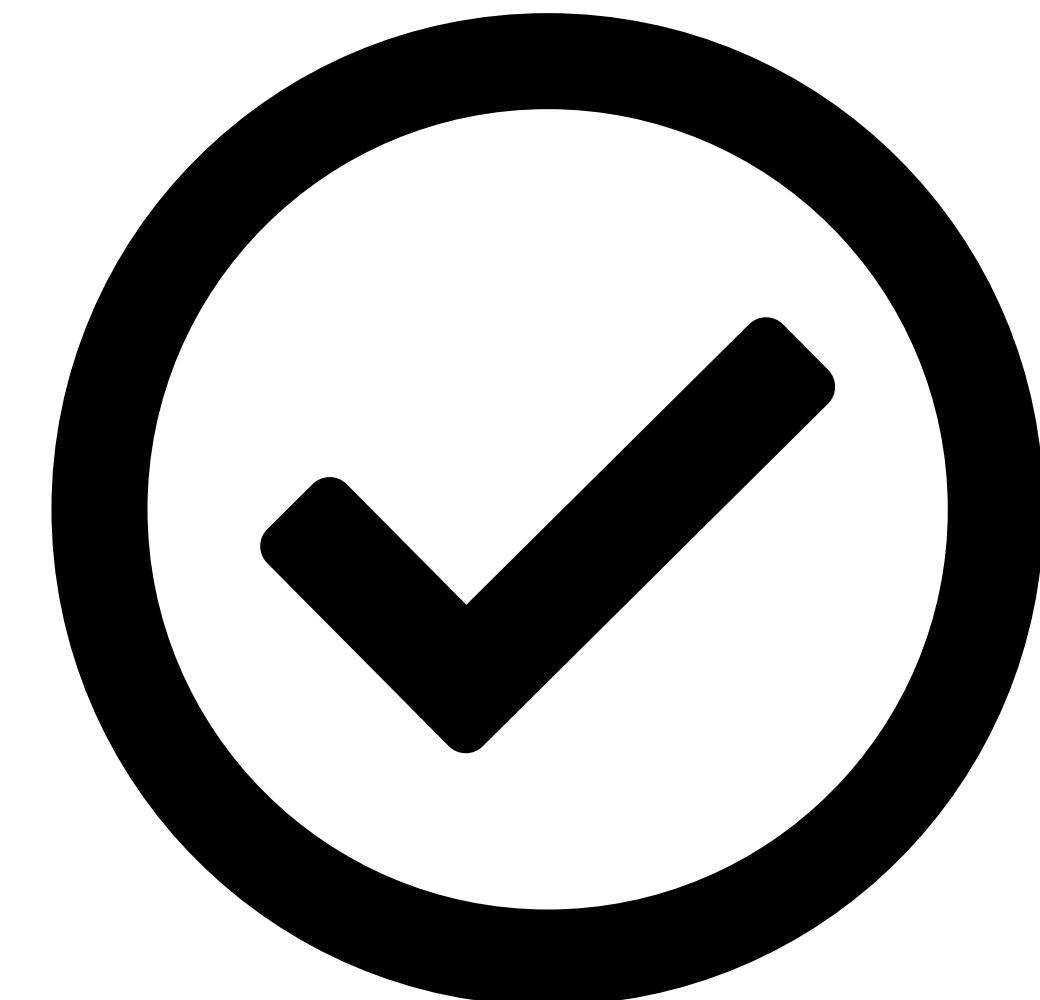
Switching at Scale : Across regions and providers



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



- **Event-Driven Processing** : Leveraging Fargate and Lambda



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

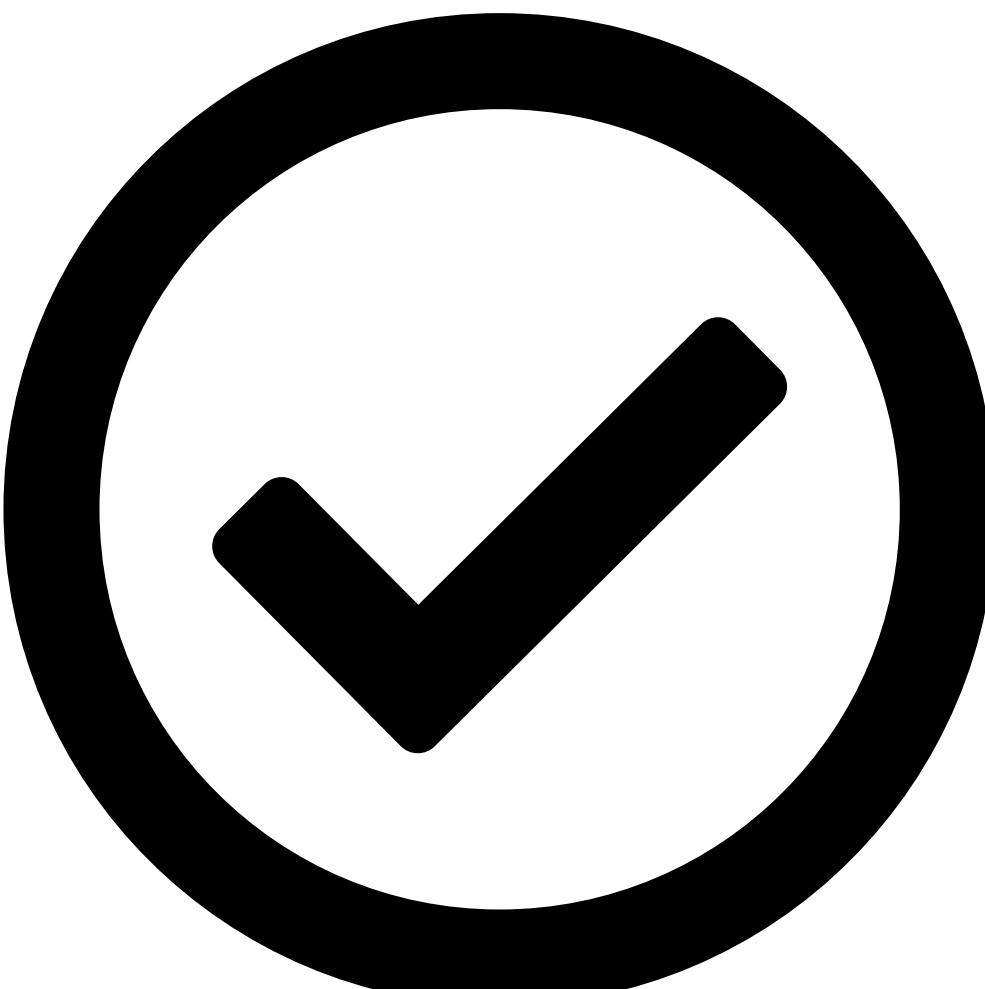
Tech Stack:



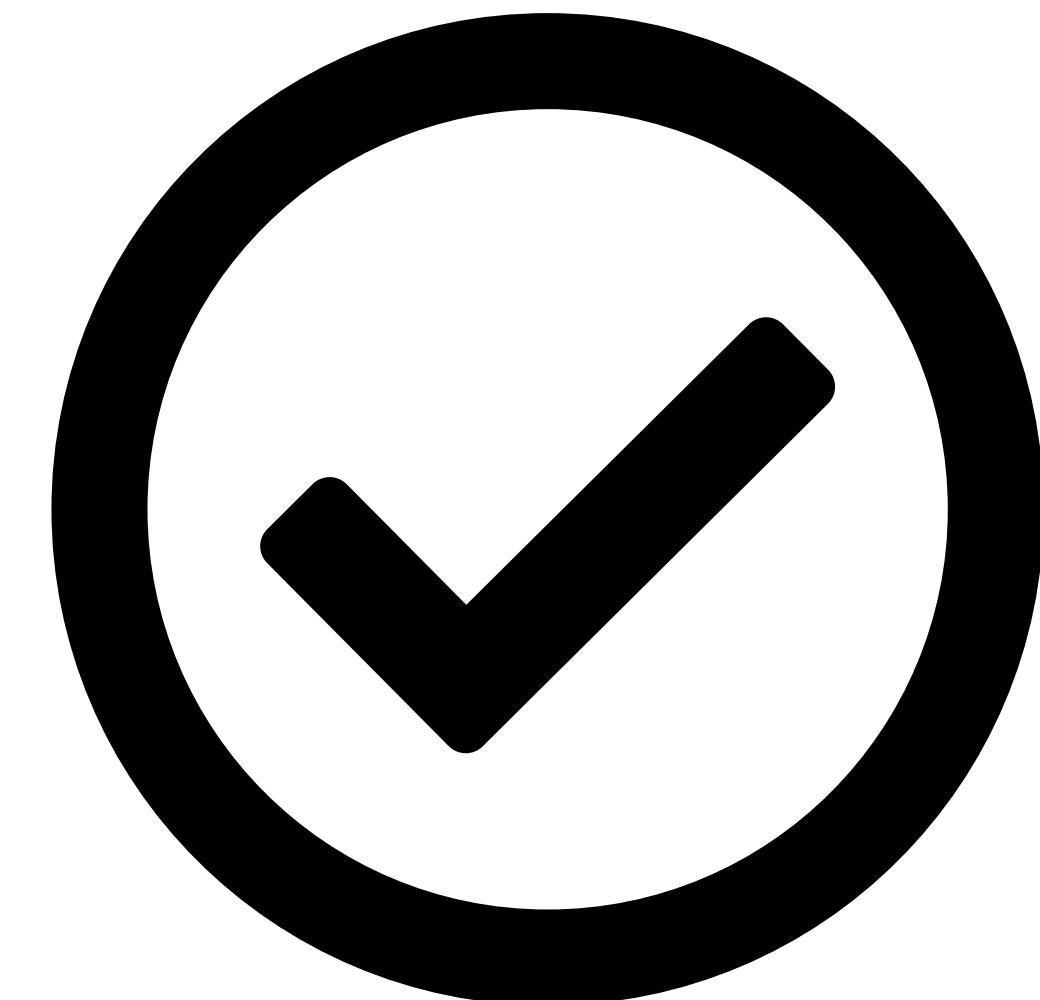
- **Built for Scale**
& Resilience : Using Amazon ECS + Fargate across 3 availability zones, we ensured zero-downtime deployments with auto-scaling built in.



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



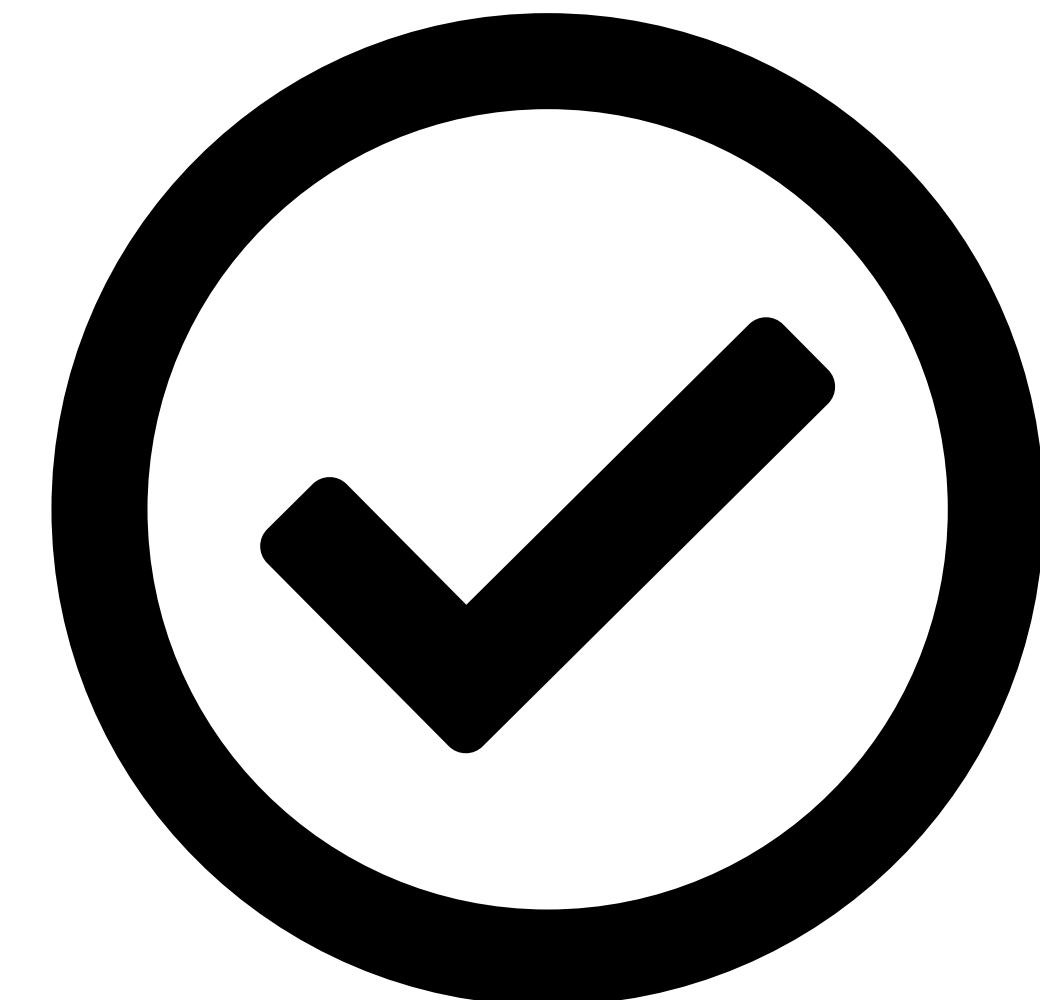
- **Intelligent Workflow Management:** Camunda BPM powers decision logic and stateful transitions for each switching request.



- **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.

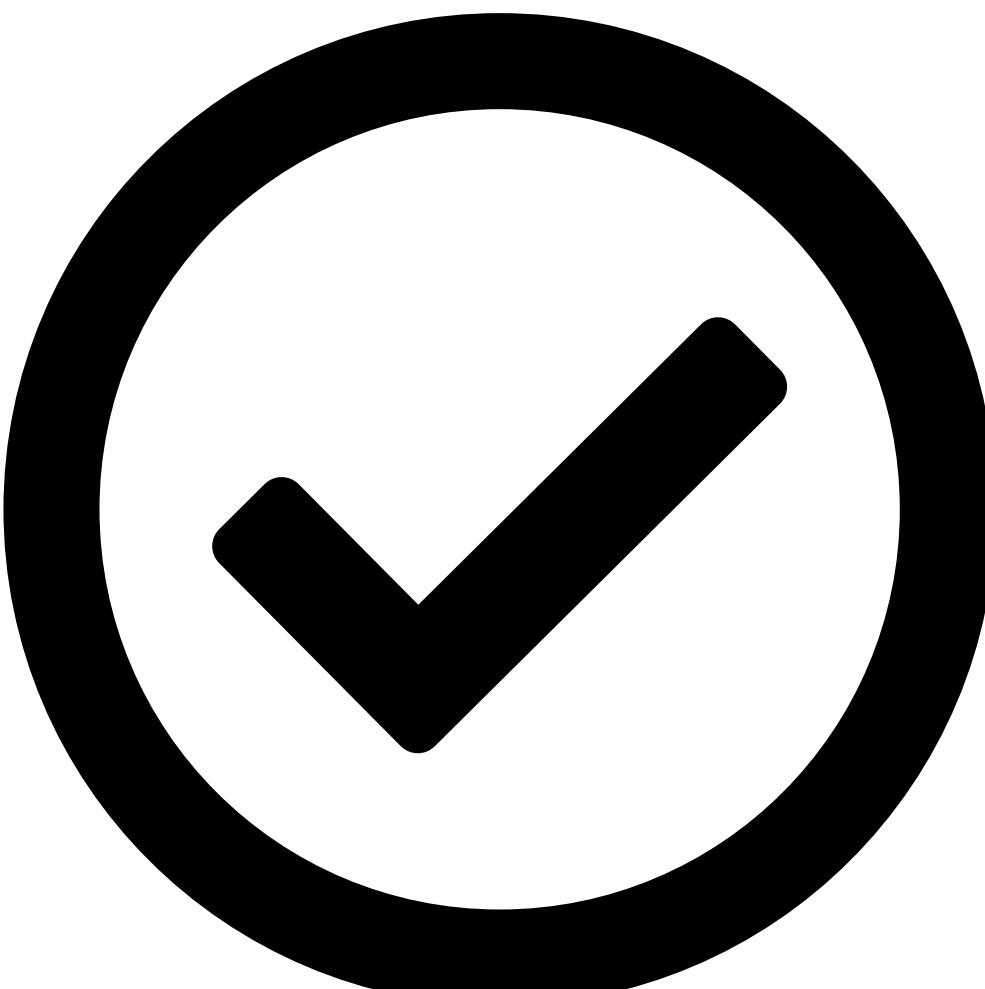


- **Communication Made Seamless:** AWS SES/SNS allow for real-time status alerts and automated transactional messaging to users and administrators.

Impact & Results:



- Delivered a fully containerized platform using AWS CDK



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



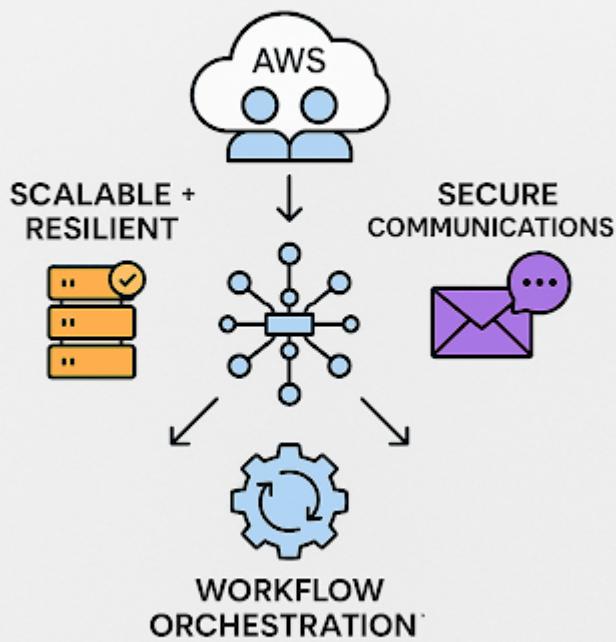
- zero downtime during peak test simulation

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.

GREENFIELD TELECOM SERVICE SWITCHING SOLUTION FOR MAG



Our Thought Leadership Guides

- Case Study

[Simplifying Complex Telecom Integrations Using a Scalable Numbering Platform](#)

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

Telecom Numbering Platform

Modernizing a **Mission-Critical**
Telecom System with High
Availability & Scalable Architecture

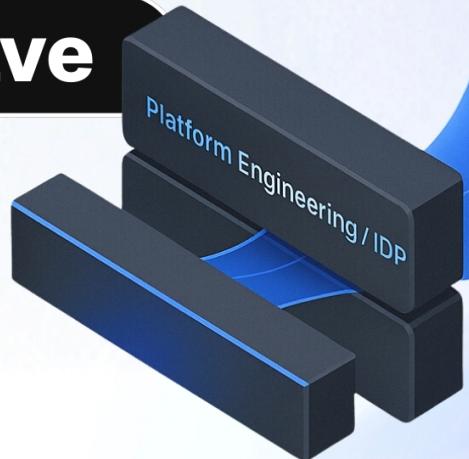


- Case Study

[Agentic AI in Telecom & Healthcare: The Platform Engineering Playbook](#)

Surviving the Agentic AI Wave

Platform Engineering for
Telecom & Healthcare

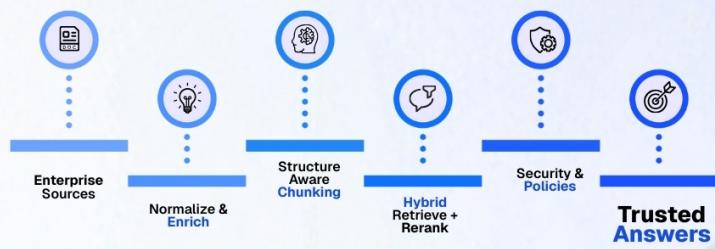


- Case Study

RAG Done Right: How to Build Enterprise-Grade Knowledge Assistants



RAG Done Right



How to Build Enterprise-Grade Knowledge Assistants | Beyond a Simple Vector Store