



Where software concepts come alive™

Business Domain

Insurance

Project Type

AWS solutions

Leading Insurance Provider Optimized the MSSQL Database to Reduce Maintenance Costs and Improve Reliability

Client

The Client is an international insurance provider, one of the leaders in the industry.

Project

Data migration from MSSQL database hosted in EC2 instances to AWS Aurora to reduce maintenance costs. Building a facade API in front of a legacy API to manage its complexity.

Objective

The Client's goal was to optimize the maintenance and infrastructure costs of the existing MSSQL database hosted on EC2 instances. The performance of the legacy API had to be improved for proper data sharing with the new Front-end application.

Team Reinforcement

The Client needed deep technical expertise to improve API performance to establish flawless data sharing with the internal application. Intetics set up an Offshore Dedicated Team® (ODT®) that suggested and implemented the solutions.

Challenge

The Client needed to reduce API maintenance costs and tackle its complexity to improve data sharing with the internal application to deliver end-users seamless and quick access to its customer’s data.

The Client incurred high maintenance and infrastructure costs of the existing MSSQL database, as well as inefficient data sharing via an API and internal applications.

The Client required technological experience to address database problems and update the existing legacy API without affecting existing integrations.

Quick Facts

- ✓ Intetics Cloud Solutions CoE involved
- ✓ Solution delivered within 2 months
- ✓ Maintenance costs reduced
- ✓ Legacy API performance improved
- ✓ The updated database is scalable and capable of handling 200 concurrent connections

Technologies

Python and Lambda / API Gateway / Aurora Serverless / CodeBuild / CodePipeline / CloudWatch AWS services

Solution

★ 01

The solution extended the existing functionality with the required new features without affecting the legacy API and end clients. The updated database is scalable and capable of handling 200 connections concurrently.

★ 02

Migration to RDS helped to reduce operational costs, review the application, optimize performance, and improve processing speed. With a Facade API, the Client was able to build a new Frontend application.

★ 03

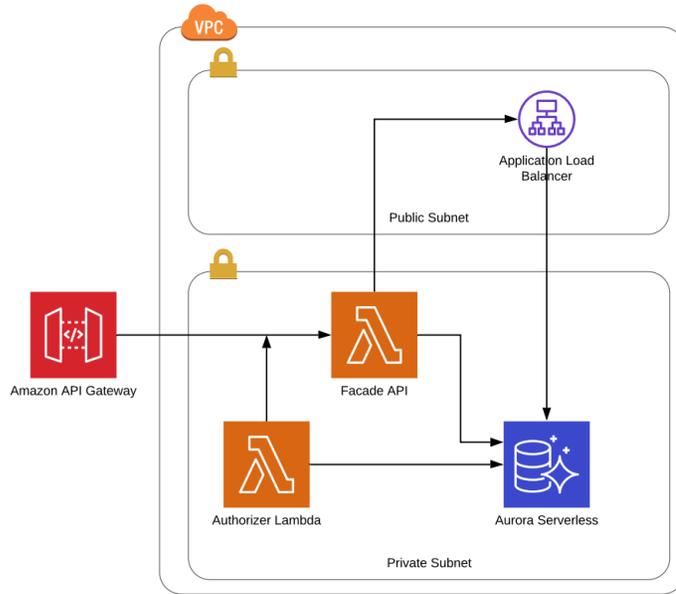
A serverless approach allowed to build the solution in a short period of time and reduce operational costs in the future.

★ 04

The ODT® proposed a serverless solution based on Lambda, API Gateway, Aurora Serverless, CodeBuild, CodePipeline, and CloudWatch AWS services.

★ 05

ODT® used Cloud Solutions CoE to implement and design the solution.



Client Reference



Intetics suggested working solutions to solve our API and database problems without affecting end-users. The team's expertise and fully-managed services on the Intetics side allowed us to focus on building business features and improving Time-to-Value.

COO

Benefits and Results

- ★ New features and API were built without negatively affecting the existing legacy API and end clients.
- ★ Operational costs to run and maintain MSSQL database on EC2 instance reduced.
- ★ As a result of the optimization, the database became more reliable and scalable.
- ★ It took 2 months to build the solution, migrate all data, and launch a new API for end-users.

Techstack:

Python and Lambda, API Gateway, Aurora Serverless, CodeBuild, CodePipeline, CloudWatch AWS services

Team: 6

1 Project Manager,
1 System Analyst,
2 Senior Developers,
1 DevOps, 1 Automation QA