

# Edifixio helps Léon Grosse IT team to migrate and modernize an existing application to AWS



## Executive Summary

In the second half of 2020, Léon Grosse decided to move their IT infrastructure to AWS.

Léon Grosse IT team requested Edifixio to migrate a sample application to the AWS cloud. The main goal being to discover AWS services and to leverage cloud performances.

## Project Goals

- Define a well architected landing zone
- Re-architect and migrate an existing 3-tier application to the cloud
- Increase automation of CI/CD processes
- Improve Léon Grosse team cloud skills

## Existing Application Specifications

- Angular frontend
- Java Spring Backend
- SQL Server database
- Used during working hours

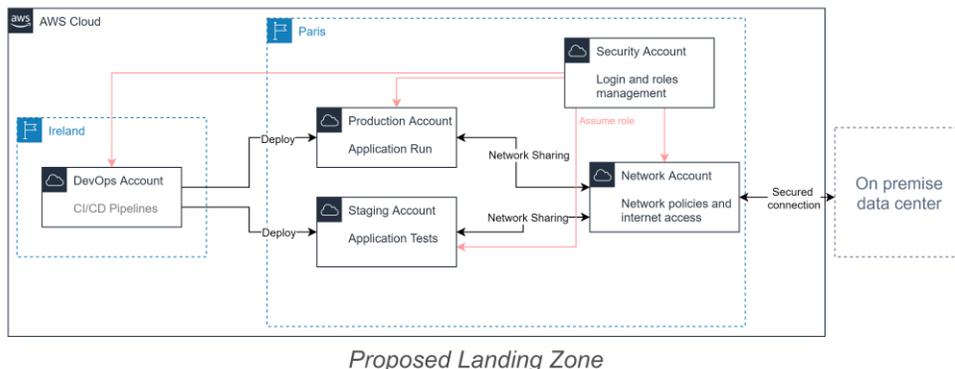
## Customer Challenges

- Reduce application run costs
- Increase application security level
- Minimize existing code refactoring
- Allow secured API calls from existing datacenter

## Partner Solution

When designing the landing zone, customer requests have been considered:

- Use account management best practices to increase security
- Create CI/CD pipelines in Ireland region to use all available AWS services
- Run the application in Paris region



## About Léon Grosse



100% entrepreneurs

Léon Grosse is a French family-run Group founded over a century ago in the French Alps.

The 12<sup>th</sup> largest construction group in France.

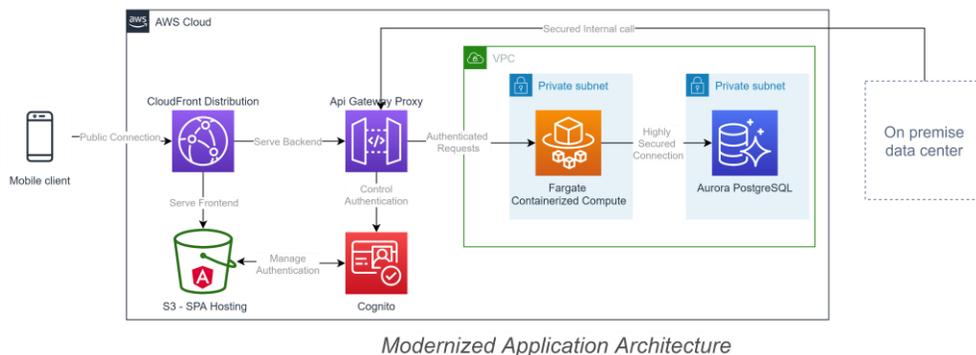
## Projects including:

- Renovation of the natural History museum “Grande Galerie” in Paris
- Construction of the European parliament tower in Strasbourg
- Construction of the Charles-de-Gaulle airport terminal 4

## Modernization

The main features are:

- The migration of the SQL Server database to PostgreSQL
- An entirely Serverless solution involving:
  - Containerized Java application in AWS Fargate
  - Serverless AWS Aurora PostgreSQL database
- An end-to-end authentication mechanism with AWS Cognito
- A code refactoring involving:
  - Moving of the frontend authentication to connect to AWS Cognito
  - Adding authentication to internal calls



## Results and Benefits

This project improved application's performances and security with very low refactoring of the existing code. Running costs were drastically reduced by taking advantages of the serverless services.

The project started in March 2021 and lasted 2 months. The realization of the modernization has been done in complete cooperation with the customer, allowing an effective knowledge transfer to the Léon Grosse IT team.

A *Well Architected Review* permitted a funding of 5 000€ in AWS credits for Léon Grosse.

## Customer Feedback

Edifixio has a wide knowledge of the services available on AWS and we have succeeded together to transform the application into a full serverless application (Cloudfront, S3, Cognito, API Gateway, Fargate, Aurora serverless).

In the same project, we have set up together a complete CI / CD chain. Edifixio's helped us to reach our goal to improve our skills and knowledge in AWS.

## About Edifixio

Premier Consulting Partner since 2010, Edifixio has a significant experience in delivering Cloud based infrastructures and applications for its customers.

We are AWS Cloud Managed Services Partner having joined the MSP Partner program since day one.

Owners of the Migration Competency and the Microsoft Workloads Competency, our consultants are Solution Architect, SysOps Admin, DevOps Engineer and Development AWS certified.

