

Edifixio helps Schneider Electric IT team to migrate and modernise an existing application to AWS



Executive Summary

The Schneider Electric Business to Business (B2B) ordering platform started, with Edifixio support, its AWS journey at the beginning of 2016, first with the migration from the physical data center to AWS Cloud. Then, during the past six years Schneider Electric and Edifixio jointly deployed AWS services regularly to leverage cloud benefits. This is a strategic platform that allows Schneider Electric distributors located around the world to order at any time.

Project Goals

- Define a well architected landing zone
- Re-architect and migrate an existing 3-tier application to the cloud
- Improve infrastructure management by implementing infra-as-a-code
- Modernise the on-premises relational database application with RDS functionality.
- Improve security posture by implementing encrypted secrets storage with AWS Secrets Manager
- Leverage cloud services like API gateway for exposing APIs in a secure way.
- Improve application performance with Redis usage
- Improve storage statics content with S3 bucket usage.
- Increase automation of CI/CD processes

Customer Challenges

- Increase application-level security, making fault-tolerant and auto detection of faults.
- Increase performance of the application
- Reduce application run costs
- Minimise existing code refactoring

About Schneider Electric



Schneider Electric is the global leader in the digital transformation of energy management and automation, with more than 128,000 employees in +100 countries.

Schneider Electric's purpose is to empower all to make the most of our energy and resources, bridging progress and sustainability for all.

Modernization

The main features are:

- Implementation of redundancy for the application servers and RDS database
- Move static contents to AWS S3 storage
- The migration of the on-premises relational database to RDS database
- Implementation of application cache in Redis and AWS Secrets Manager to store and manage secrets with a proper defined life cycle.
- Implementation of CloudFormation for the deployed infrastructure for the post migration infrastructure deployments.
- Implementation of AWS Code Build and AWS Code Deploy as a building block for the modern CI/CD
- Consideration of serverless solution for new deployments:
 - ◆ AWS API Gateway is being used on top of Lambda for exposing the new APIs.
 - ◆ Serverless AWS DynamoDB database
- A code refactoring involving:
 - ◆ Adapting mySE code for RDS databases which was created during the “Lift-and-Shift” migration

Results and Benefits

This project improved application’s performances and security with very low refactoring of the existing code. Running costs were reduced by taking advantage of the serverless services wherever possible. The realisation of the modernization has been done in complete cooperation with Schneider Electric as a valued customer.

Customer Feedback

“ We’ve had a strong relationship with Edifixio for many years now. Edifixio has helped in our digital transformation and adapting cloud solutions to align with modern architectural trends and to leverage the benefits of Cloud Computing.

We could successfully migrate and continue the journey of digital modernization for mySE solution with the help of Edifixio.”

Oscar Sanchez – Digital Customer Experience Director

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.

