CASE STUDY

British Cloud Infrastructure Provider Implements Integrated Console for Customers using Cloud Native Approach

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Challenges:

- *Monolithic Architecture made addition of new features difficult*
- *Lack of an Interactive UI/UX*
- *Scalability issues*

Solution:

- *Cloud-Native approach and AWS Lambda to build microservices architecture*

Results:

- *High availability and scalability*
- *Reduced operational costs*
- *Upgradation and rollbacks are now simpler*
- *Faster development*

About the Customer

The client company provides connectivity through a business-only network in the UK. They aim to digitally transform enterprise customers and help them with innovative IT, cloud and communications services. With technology at the center of their business, they have a large product portfolio that enables them to create tailored solutions for their customers. An important aspect of their customer services was an integrated console for their customers to monitor and control their own cloud and network estate. They wanted to upgrade this integrated console service.

The Need

The client wanted to make their cloud and network estates visible to their customers. They felt that implementing an integrated console would achieve this goal. But their legacy systems based on monolithic architecture made it difficult for them to add features easily. Adding to this, software deployment on premise resulted in scalability issues. They also had difficulties in delivering new connections and virtual machines on demand. Finally, their customer-facing UI for monitoring the resources was not interactive enough to bring in more customers.

As a telecommunications company, they lacked the necessary tools and expertise to achieve the following:

- Migrate to the Microservices architecture
- Design an interactive UI/UX
- Switch to cloud to be able to scale up exponentially

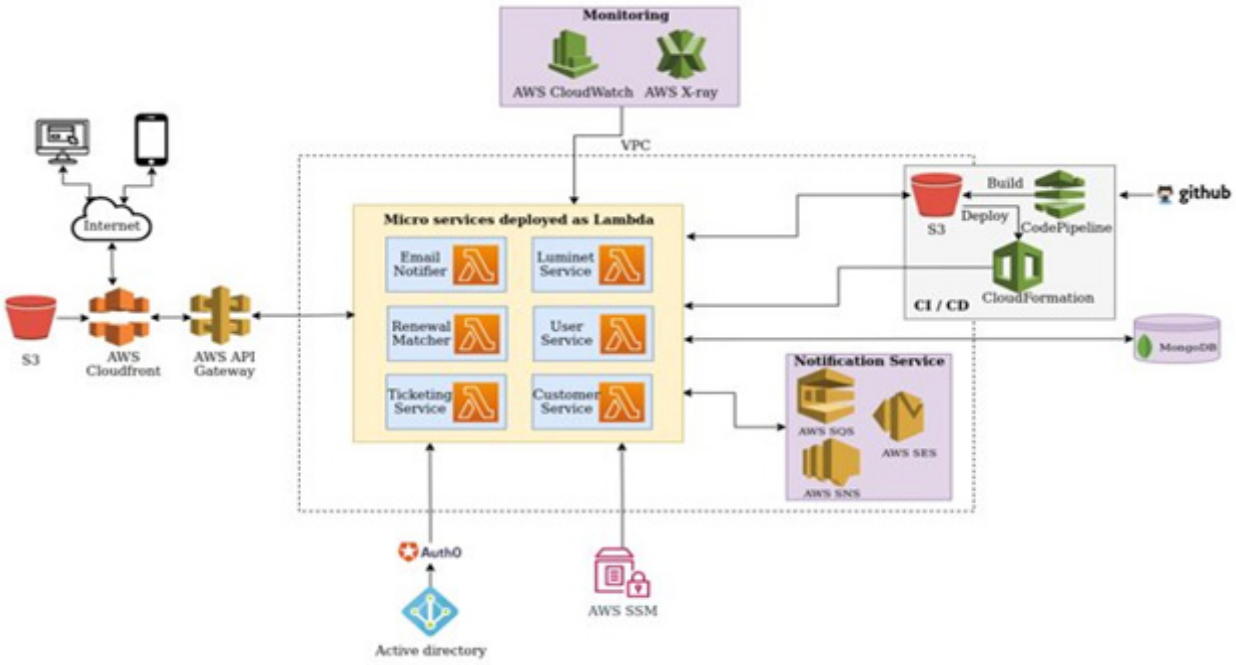
Aspire's Solution

Aspire analyzed the client's needs and expectations and recommended the Cloud-Native approach which means that the application will have a service oriented architecture, microservices, APIs, and containers. The microservices architecture enhances capability for development and deployment of features independently.

Cloud Native Development

- Used Cloud native approaches and AWS lambda platform for designing and developing micro services
- Built an interactive and effective UI/UX design for the application
- Developed each Lambda application as a micro service in itself

Cloud - Microservices Architecture



Benefits

- Highly available and scalable system
- Version upgrades and rollbacks are much simpler
- Faster Development because each micro service is a self-contained application. Developers can focus on one application alone
- Reduced operational cost since microservices are executed on demand to serve the request and destroyed automatically (Pay As You Go)

Technology Snapshot

- » React
- » NodeJS
- » MongoDB
- » AWS SNS
- » AWS Lambda
- » AWS SES
- » AWS VPC
- » AWS S3

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For more info contact: info@aspiresys.com or visit www.aspiresys.com

USA
+ 1 630 368 0970

SINGAPORE
+65 3163 3050

INDIA
+91 44 6740 4000

BELGIUM
+ 32 3 204 1942

NETHERLANDS
+ 31 (0)30 800 92 16

POLAND
+48 58 732 77 71

MEXICO
+52 222 980 0115