



Executive Summary

A UK based technology firm known for their innovative expertise in Governance and Cyber Risk mitigation solution wanted to collaborate with an experienced Product development technology company for the development of their next-gen cloud hosted solution.

Aritha Consulting's demonstrated capabilities in Outsourced Product development of over a decade, with a qualified team of engineers was most suited to be the collaborative partner for this project.

About the Client

The client is a niche player specializing in Architecture Governance and building Next-Gen Innovative products. Providing product and services focused on cyber security and governance across various Industries, it is imperative for their success to continually upgrade their portfolio of offerings to meet the challenges of emerging technology environment.

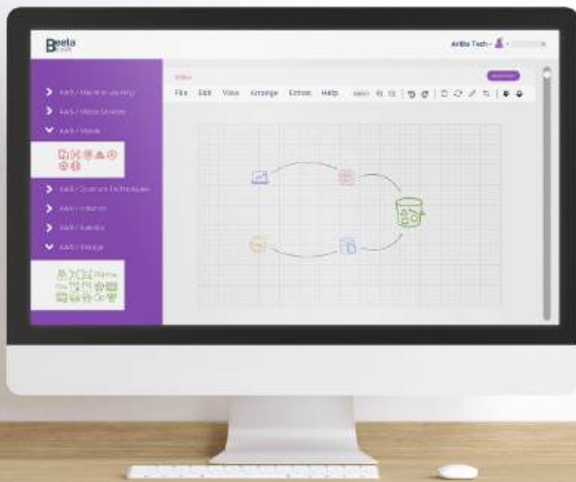
Fuelling Innovation for a UK Based Technology Firm Specializing in Architecture Governance

Cloud Automation at the click of a button with multi-tenant secure system

Expectation & Challenges

The scope provided by the client was brief and cryptic – **'Cloud Automation at the click of a button with multi-tenant secure system'**

The challenge for Team Aritha was that this was a technically uncharted area for them with no prior references both in-house and at client's site! This meant Learning, Unlearning and Relearning on the Job. Team Aritha stepped up to the challenge to design an optimum yet innovative solution much to the customer's delight! This project is indeed an ode to the team's passion for technology and customer success!



Solution Delivered

Team Aritha leveraged their strengths in DevOps and Agile development to deliver a high quality robust and scalable solution that nailed the brief!

Threat and rules Engine

While building the digraph, it is important to keep track of the threats that come out and build interfaces that mitigate the threat. While the user drags and drops components to build a digraph, each change on the graph is sent to the server and the server analyses the environment being built and pops up relevant threats. Along with the threat, it also shows the recommended solution. Once the recommendation is implemented, the threat automatically vanishes allowing the user to go ahead with the deployment of a secure environment

Pattern Library

The solution started off as building a pattern library for the secure deployment of infrastructure. This work involved integrating mxgraph and providing the capability of using shapes and connectors to depict a secure environment

Scaffolding

This piece of the solution takes the above created digraph and understands the components being used and upon click of a button goes to the configured cloud and provisions the whole environment on the cloud. This scaffolding of the environment helps organizations build secure environments from the word go



Key deliverables (Project management)

1

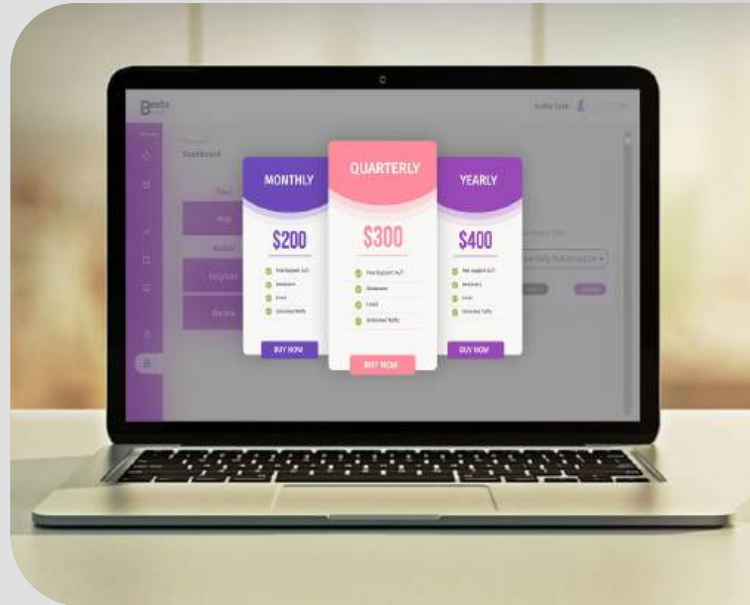
Architecture

Infrastructure

2

3

Design



Key deliverables (Product Development)

1

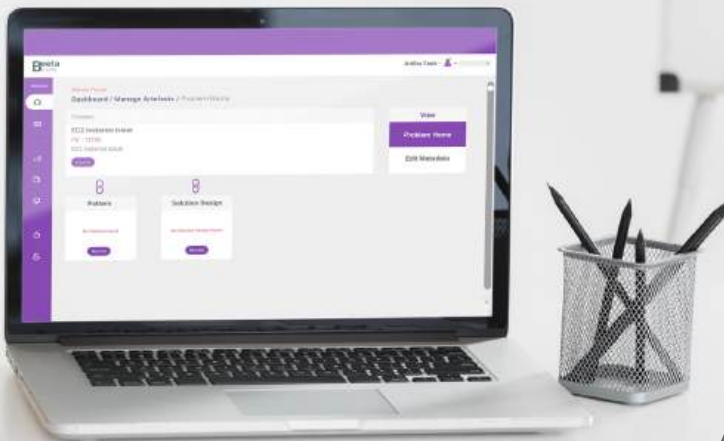
Testing

CI/CD setups

2

3

Release Management



Technology Stack



Apache



MySQL



Python



Java



JavaScript



Backbone JS



Flask
Flask Server



AWS



Azure

Technology Stack

Development



Third party integrations



DevOps

