CyLogic Improves Application Availability and Scalability with Axiom's DevOps Squad

Executive Summary

CyLogic provides cybersecurity and cloud management services to enterprises.

The client initially had availability and scalability issues with its application and reached out to Axiom to find a solution.

The Axiom team automated infrastructure provisioning to solve this problem. This automation framework helped the client seamlessly manage deployments across all the environments (DEV, QA, Staging, and PROD) with high availability and security.

The Challenges

Availability and Disaster Recovery

The customer was using only two Amazon EC2 instances for the application and hence had availability issues in case of an incident or a disaster.

Scalability

Using only one mounted storage and two instances, scaling was a problem for the customer.

The Solution

Axiom provided an automated infrastructure provisioning system for the CyLogic's application.

- Terraform, and Terragrunt were used for the provisioning of new environments and for configuration management.

- The application was redeployed over three availability zones in private subnets.

- Amazon EKS was used for deployment orchestration.

- Access to applications was provided via load balancers on the public subnet.

- GitOps was used to write automation code to enable 1-click automation for environment provisioning.

CyLogic
The Secure Enterprise Cloud

About CyLogic

CyLogic is a US-based cybersecurity and cloud management company that builds, operates and continuously monitors dedicated cloud platforms for enterprises requiring the highest level of security with total control of their data.

Why Axiom?

Axiom, an AWS Advanced Consulting Partner, Azure and Citrix Certified Partner, has been providing DevOps services to small and midsized businesses for over 8 years.

Our experienced DevOps engineers manage DevOps workflows for more than 15 customers.

> "Axiom provided a really solid team of software engineers that delivered the project on time, and these people can join our team later on under the BOT contract model we selected."
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> **-Adam Firestone**
> Chief Engineering Officer, CyLogic

Results and Benefits

With automated provisioning of environment, CyLogic can now:

- Scale application seamlessly as the business grows

- Have high uptime with multiple availability zones and instances

With GitOps and infrastructure as a code approach, security became an integrated part of the development process.

Next Steps:

The implementation of AWS Web Application Firewall (WAF) and AWS CloudFront with a DevOps pipeline to prevent DDOS attacks is in the customer's requirements pipeline.

> **"One of the challenges with outsourced IT projects is that the outsourced team considers it as just another job and they are only punching the clock. The experience with Axiom is diametrically opposite. They adopted our ethos and worked with the same kind of commitment as our in-house team does."**
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> - **Adam Firestone**
>   Chief Engineering Officer, CyLogic