

IONA Managed Services: ECS, ELK & Amplify implementation helped the customer improve availability and resilience



Offering

Managed Cloud Services

AWS Services

Amplify, CodeBuild, CodePipeline, ECR, ECS, ElastiCache, Glue, GuardDuty, Inspector, Lambda, SES, SNS, S3, WAF

Introduction

IONA Application is designed for employee onboarding, a simple portal to manage, track and monitor onboarding in one place with speed & scale. It is a portal with AI-powered dashboards which provide actionable information. Its access is controlled for internal and external hiring teams: complete candidate management and offer letter customizations.

Business Needs

The customer was looking for a Managed Services Partner to help manage their AWS Infrastructure by mitigating risk & Security issues, Automation of Pipelines, Managing Containers (ECS), centralized logging with ELK setup, and streamlining front-end application issues in their production environment.



Implementation

- The deployment model was changed to **Blue-Green Deployment** to meet with high availability and integrity and rollback options
- **Amplify** was implemented to streamline the frontend Application
- A **centralized Logging system (ELK)** was implemented for logs across all resources from application Containers, AWS resources
- ECS Services Launch number of containers across the cloud using your preferred continuous integration and delivery (CI/CD) and automation tools.
- **AWS CodePipeline** is leveraged for Deployments



Next logical move

- Well-Architected Review (WAR) to cover all core pillars of AWS. This would be a major milestone in terms of reliability, cost reduction, security enhancement operation, performance efficiency, and business sustainability.
- Architecting to move to EKS for better orchestration.

- ACM Services were implemented for securing websites.
- All the URLs are consistently monitored by the Rapyder monitoring team. The URLs are monitored using the Status Cake tool, which provides uptime and downtime periodically.
- AWS CloudWatch is used to continuously monitor the performance and utilization metrics of all servers
- AWS SNS handles all their alert management and is integrated with CloudWatch to send out mails on different\ event trigger
- AWS Natives services such as **Security hub**, AWS Guard Duty, and Inspector was implemented. The team further helped to implement **CIS Benchmark**
- **Anomaly detection** was enabled as part of Monitoring.



Reaping Rewards

- 100% Application Availability, Faster Deployment, and rollback were achieved using blue-green Deployment.
- Iona successfully mitigated risks and conducted a security audit of their environments and achieved CIS Benchmark
- Centralised Logging and dashboard helped the customer to achieve Governance for their AWS Infrastructure & Application.