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

Introduction

JONA 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 Need

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.

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» 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 Services**

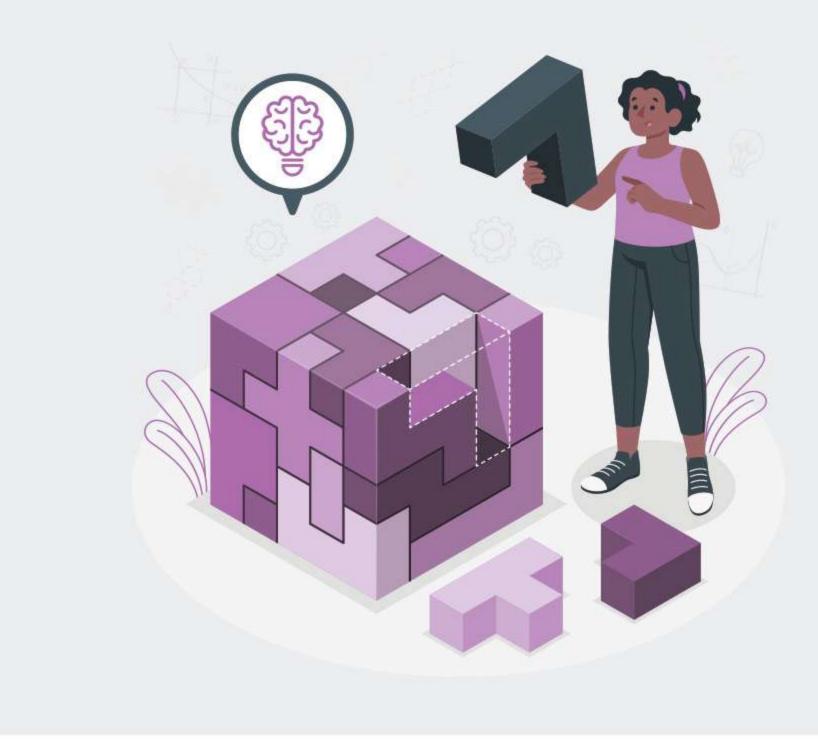Amplify, CodeBuild, CodePipeline, ECR, ECS, ElastiCAche, Glue, GuardDuty, Inspector, Lambda, SES, SNS, S3, WAF.

» **Offerings**
Managed Cloud Services

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.

» AWS CodePipeline is leveraged for Deployments

» 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.

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