

CASE STUDY – Financial Services Platform

Migration to AWS with a Focus on Cost Optimisation

The problem

This client faced a challenge with their existing AWS environment, which was initially provisioned by their development team. They realised the need for an experienced AWS partner to support and manage the platform on an ongoing basis. Their concerns centred around cost management, architecture best practices, security management, uptime monitoring, deployment of new services, and the overall management of the AWS platform. Recognizing the necessity for cloud support, managed and professional services, they required a comprehensive suite of primary services. These included an ITIL-compliant service desk, network and security operations, incident management, platform housekeeping, comprehensive monitoring of the platform, resources, and applications, escalations and alerting, dashboards and key metric reporting, cloud configuration management, user and access governance, cost control and optimization, problem troubleshooting and diagnosis, and recovering services during a disaster.

Our approach

Our approach to supporting and managing their AWS environment was comprehensive and proactive, tailored to address their specific needs. In the past, we provided AWS Cloud Support, a function that included a range of services such as technical support, guidance for best practices, troubleshooting, and dedicated assistance for architecture and infrastructure design. Additionally, our AWS Managed Services effectively outsourced cloud tasks like infrastructure management, security, and application upkeep, designed to offload routine maintenance and operational responsibilities from the client to our team of cloud experts.

We also conducted an AWS review that encompassed operational excellence, security, reliability, performance, and cost optimization. This holistic approach ensured that their AWS environment is not only well-managed but also aligned with the best practices and industry standards, ultimately leading to a successful and efficient cloud infrastructure.

The Outcome

Our approach has led to a successful outcome for our client, where we managed to streamline their cloud financial management, ensuring cost control through transparency, forecasting, and cost optimization. We implemented reservations and savings plans to further enhance their financial efficiency.

Resource rightsizing was another area of success, optimizing CPU, memory, storage, and networking capacity to match the client's specific needs. We determined the correct S3 storage classes based on access patterns and matched RDS instance types to relational database workloads, ensuring a tailored and efficient cloud environment.

Our Cloud Support and Managed Services played a pivotal role in this success. Cloud Support provided a comprehensive suite of services, including technical support and architecture design assistance, which enabled the client to effectively use cloud features and maintain operational efficiency. Managed Services outsourced routine cloud tasks to our experts, allowing the client to focus on strategic initiatives while we ensured their cloud environment was optimized, secure, and up to date. This holistic approach allowed the client to leverage the full potential of cloud computing without the need for in-house expertise, leading to a well-managed and efficient cloud infrastructure.

KEY AWS PRODUCTS USED

- Global Accelerator
- Multiple Availability Zones with public and private subnets
- Application Load Balancer
- EC2 web and application servers in multiple subnets
- Multiple MySQL multi-zoned RDS instances for database layer
- ElastiCache (Redis) for database caching
- AWS Backup for all assets
- S3 storage for short- and long-term object storage
- Simple Notification Service
- CloudWatch
- Route 53
- Key Management Service

COMMENTS FROM DUDOBI

“Since they’ve been a client, we have reduced their AWS spend by more than 30%, improved the security posture of the environment and recommended and implemented several architecture improvements that have resulted in improved stability, performance and uptime of the platform. We have also identified and/or resolved several operational issues on the platform and application in conjunction with the development team.”

Vito da Silva