CASE STUDY – Cloud Communication Platform

Migration To AWS with a Focus on Absolute Uptime™

The problem

This client faced a pressing issue with their mission-critical application hosted on physical servers that had highly limited scalability, redundancy, and high availability. The urgency was compounded by extremely tight timescales to complete the migration due to the end-of-life status of the current physical platform. Lacking expertise and experience in cloud migrations, they sought a trusted AWS partner to design, deploy, and manage the cloud environment on their behalf. The client required a partner to analyse the current environment, design and build a suitable cloud platform, pilot the application, and perform the migration, management, and modernization to cloud-forward technology.

Our approach

Our approach to migrating the client's physically hosted servers to AWS was methodical and strategic, involving six key steps:

1. **Analysis** - We looked at the current setup.
2. **Design & Build** - We created a new, secure, and cost-effective system in the cloud.
3. **Pilot** - We tested a smaller version of the system to find any issues.
4. **Migration** - We moved everything over to the new system.
5. **Management** - We made sure everything ran smoothly after the move.
6. **Modernization** - We updated the systems to make the most of AWS.

We designed a secure, scalable, and cost-conscious AWS platform, complemented by a comprehensive migration plan aimed at minimizing downtime and maximizing future efficiency.

In the past, we conducted a pilot migration of a small-scale version of the platform to test the migration plan and identify any potential issues or challenges. This allowed us to manage and execute the migration plan effectively, ensuring that the client's data and applications were carefully and securely transferred to AWS. Post-migration, we provided ongoing management of the cloud environment to ensure that systems ran smoothly and efficiently. We monitored performance, optimized resource usage, and implemented best practices to reduce costs and improve reliability.

Continuing our partnership, we worked with the client to modernize their systems and leverage the full benefits of AWS. Our efforts helped them optimize their infrastructure, improve performance, and reduce costs, enabling them to focus on growing their business.

The Outcome

Hassle-free AWS

Our client partnered with a team that not only understood their business and technology but also provided guidance and support from a thoughtful and experienced team of cloud experts. The outcome was a robust platform that is resilient to downtime, achieving Absolute Uptime™. We developed a pragmatic cloud architecture that balanced cost and performance, resulting in a solution that is secure, scalable, and cost-aware. They now benefit from ongoing advice, support, and input from a dynamic team capable of managing the platform on their behalf, ensuring their continued success and efficiency in the cloud environment.

Key Products used

- AWS Global Accelerator
- Multiple Availability Zones with public and private subnets
- Application Load Balancers for front end access
- Autoscaling EC2 web servers in a private subnet for the application layer
- Elastic File System for storage layer
- Multiple MySQL multi-zoned RDS instances for database layer
- ElastiCache for Memcached for database caching
- AWS Backup for all assets
- S3 storage for long-term database backup storage
- Dedicated bastion host for access to EC2 instances and system maintenance
- NAT gateways for internet bound traffic
- Simple Email Service
- CloudWatch dashboards and alarms

Comments from Dudobi

"The migration required intensive work and collaboration between the Dudobi engineers and the client's development team during the pilot, migration and go-live phase to ensure that availability and performance of the application was maintained throughout the process. due to the very tight timescales the design and deployment was fast tracked and successfully completed within the timeline agreed. it was a great collaboration between the development and operations team to complete."

Vito da Silva
Director | Professional Services

Comments from Client

"Many words of thanks and appreciation for the excellent responsiveness to queries and requests during all phases of the project. Highly appreciative for the effort, expertise and expediency."

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