

FINTECH CASE STUDY

Revolutionizing Secure Payments: A Middle East Payment Gateway Success Story

EXPERTS IN



EXECUTIVE SUMMARY

A revolutionary payment gateway platform in the Middle East that empowers both online and offline businesses with secure cashless transactions. This dynamic solution seamlessly integrates diverse financial services, ensuring convenience and reliability for merchants and customers alike.



THE CHALLENGE

In an era where financial information is gold, the challenge lay in crafting a robust infrastructure that could handle sensitive transactions with top-tier security, high performance, and fault tolerance. While the application itself was designed with compliance and security in mind, the client sought an underlying infrastructure that would meet these critical security benchmarks.

The aspiration was for a platform that not only prioritized secure and error-free online transactions but also facilitated secure data transfer among components like the application, POS devices, end users, and the bank.



GEEKS SOLUTIONS

Enter Geeks Solutions, armed with over 16+ years of expertise and as an Amazon partner and a seasoned managed service provider in server management. Merging their Amazon Web Services (AWS) proficiency and extensive experience, they created a winning strategy.

AT A GLANCE

Challenges

- Security Par Excellence
- Performance on Demand
- Fault-Tolerant Foundation
- Compliance and Confidence
- Secure Data Transfer

Benefits

- Secure Backups
- Scalability and Performance
- Uninterrupted Availability
- Proactive 24x7 Support
- Cost Efficiency and Savings



"The Geeks Solutions team's expertise transformed our payment gateway into a fortress of security and efficiency. Their AWS mastery and strategic approach ensured flawless transactions and unwavering service, all while safeguarding our valuable data."

- Abdullah

Geeks Solutions' record includes crafting Containerised Orchestration and Kubernetes-based deployments across diverse environments, from virtualized private data centers to the cloud. With a meticulous approach, they evaluated various AWS components, configurations, and internal prerequisites, ultimately opting for AWS Cloud. This choice not only aligned with the client's requirements but also ensured a secure, stable foundation for the nature of the business.

Following an agile methodology, Geeks Solutions' AWS Certified Solutions Architects and their 24x7 Support & Administration team ensured swift application availability. Their continuous support extended to both application and infrastructure, guaranteeing uninterrupted service.

TECHNOLOGY STACK

- Amazon EC2 Auto Scaling dynamically scales EC2 instances to manage surges in traffic.
- Amazon Elastic Load Balancer seamlessly distributes traffic among EC2 instances in the Autoscaling pool.
- Amazon S3 bucket collects and stores essential CloudTrail event logs and daily database backups.
- Amazon CloudWatch vigilantly monitors various AWS infrastructure facets while supporting other services.
- MariaDB Galera Cluster, hosted on multiple Amazon EC2 instances across regions, serves as the application database backbone.
- Route53 manages Galera and local DNS, skillfully balancing traffic distribution.
- AWS Global Accelerator provides a failover mechanism, enhancing application reliability.
- AWS CodeCommit facilitates seamless code deployment, streamlining the development process.

THE ADVANTAGES

- Transaction data backup becomes a secure and seamless process.
- Scalability and performance assurance empower the platform to handle varying workloads.
- Unwavering availability ensures round-the-clock service.
- Robust network security fortifies the system against threats and breaches.
- Proactive 24x7 support and remote monitoring predict and mitigate potential risks.
- Cost efficiencies and savings are realized through an optimized infrastructure.

FOR MORE DETAILS, PLEASE CONTACT US

For a deeper understanding of how our solution can transform your business and enhance your payment gateway platform, don't hesitate to get in touch.

Our experts are ready to provide comprehensive insights and tailor-made solutions to meet your specific needs. Contact us today to embark on a journey towards secure, efficient, and innovative payment solutions.

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