Financial Services & Payments | Migration & Modernization | AWS

How a ***Leading African Payments Platform*** made its staging environment operational on AWS in just 3 weeks

Company	Industry	Partner
Leading African Payments Platform	**Financial Services & Payments**	**Flentas Technologies**

Flentas

Introduction

The Client is Africa's largest payments gateway, enabling interoperable cross-border and domestic digital payments across the continent. As a leading pan-African payments network, the Company connects mobile money platforms, banks, money transfer operators, enterprises, and consumers, helping expand access to financial services and drive digital payment adoption at scale.

As transaction volumes and platform demands continued to grow, the Client sought to modernize its infrastructure and establish a more scalable, secure, and resilient operating environment. The organization also needed to migrate critical workloads and databases while maintaining connectivity with existing systems and minimizing disruption to business operations.

To support these objectives, the Company partnered with Flentas Technologies to design and implement a cloud migration and modernization strategy that would strengthen platform scalability, security, governance, and operational efficiency.

At a Glance

Solution

Cloud Migration & Modernization
Migrated critical workloads to a scalable cloud platform.

Application & Database Modernization
Improved performance, availability, and operational efficiency.

Security & Governance
Strengthened security controls, monitoring, and compliance readiness.

Operations & Connectivity
Implemented centralized monitoring and resilient network connectivity.

Business Impact

- Improved scalability and operational agility
- Strengthened security and governance
- Enhanced reliability and platform resilience
- Successfully migrated critical workloads with minimal disruption in 3 weeks

Technologies & Services Used

Compute
- Amazon EKS
- Amazon EC2

Database
- Amazon RDS for MySQL

Storage
- Amazon S3

Networking
- AWS Transit Gateway
- Site-to-Site VPN

Security
- AWS Secrets Manager
- AWS WAF
- AWS CloudTrail

Monitoring
- Amazon CloudWatch
- Amazon SNS

Container Management
- Amazon ECR

Migration
- AWS Database Migration Service (DMS)

The Challenge

As the business expanded and digital payment adoption accelerated, several infrastructure and operational challenges began limiting agility and future scalability.

01

Infrastructure Modernization Requirements

The existing environment required modernization to support growing workloads, improve operational efficiency, and provide a more scalable foundation for future business growth.

02

Scalability & Performance Demands

As transaction volumes increased, the Client needed an infrastructure platform capable of scaling on demand while maintaining application performance and reliability during periods of peak activity.

03

Security & Governance Expectations

Operating a large-scale payments platform required strong controls around security, monitoring, compliance, and infrastructure governance. Existing processes needed greater standardization and visibility to support long-term operational requirements.

04

Complex Migration Dependencies

Migrating critical application workloads & databases required careful planning to ensure business continuity, data integrity, and minimal disruption to users and operational teams.

05

Connectivity Across Multiple Environments

The platform relied on communication between cloud environments and external systems, requiring a secure and reliable connectivity framework capable of supporting business-critical transactions.

The Solution

Flentas Technologies designed and implemented a modern cloud operating model focused on scalability, resilience, security, and operational excellence.

01

Cloud Migration & Platform Modernization

A structured migration strategy was developed to transition critical workloads to a modern cloud platform while maintaining service continuity and minimizing operational risk.

02

Scalable Application Architecture

The application platform was modernized to support containerized workloads and dynamic scaling, enabling the infrastructure to adapt more effectively to changing business demands.

03

Modernized Data Platform

Core databases were migrated to a managed, highly available architecture designed to improve reliability, operational efficiency, and long-term scalability.

04

Strengthened Security & Governance

A comprehensive security framework was implemented to improve visibility, governance, auditability, and compliance across the infrastructure environment.

05

Centralized Monitoring & Operations

Monitoring, logging, and alerting capabilities were standardized to provide greater visibility into application health, infrastructure performance, and operational events.

06

Secure Network Connectivity

A resilient connectivity framework was established to support communication between cloud environments and external systems while maintaining security and performance requirements.

07

Operational Standardization

Infrastructure management, security controls, and operational processes were standardized to improve consistency, reduce complexity, and support future growth.

Business Impact

Accelerated Cloud Migration

Successfully migrated the Client's staging environment to AWS and made it operational within 3 weeks, enabling faster cloud adoption while maintaining business continuity and minimizing disruption to ongoing operations.

Improved Scalability

The new platform provides a flexible foundation capable of supporting increasing transaction volumes & evolving business requirements.

Stronger Security & Governance

Centralized controls, monitoring, and governance capabilities have improved visibility and strengthened the organization's overall security posture.

Enhanced Reliability & Resilience

Modernized infrastructure and managed services provide improved availability, fault tolerance, and operational stability for business-critical workloads.

Increased Operational Efficiency

Standardized operations and managed platform services have reduced infrastructure management overhead and improved day-to-day operational efficiency.

Better Visibility & Monitoring

Centralized monitoring and alerting capabilities enable faster issue detection, proactive troubleshooting, and improved operational decision-making.

Conclusion

By partnering with Flentas Technologies, the Client successfully modernized its infrastructure and established a scalable, secure, and resilient platform capable of supporting the next phase of its growth.

The organization now benefits from improved operational efficiency, stronger governance, enhanced reliability, and greater scalability—providing a solid foundation for continued innovation in digital payments across Africa.

Take Action

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