Case Study: Komidaz Inc. Migrates to AWS for Scalable, Secure, and Compliant Digital Food Ordering

Case Study Short Description

Komidaz Inc., the creator of KhaoDao—a digital dining platform—migrated to AWS with Graaho Technologies. The serverless, secure, and scalable solution enabled rapid deployments, improved performance, enhanced security, and reduced infrastructure costs.

Problem Statement / Definition

KhaoDao, the flagship platform of Komidaz Inc., experienced rapid user growth that strained its legacy on-premise infrastructure. The team faced multiple operational hurdles:

- Degrading performance during traffic surges
- Manual server management and limited scalability
- Fragmented and reactive security controls
- Inadequate monitoring and delayed incident response
- Difficulty expanding into new markets or regions

Komidaz required a modern, cloud-native infrastructure to ensure seamless scalability, centralized security, cost efficiency, and operational agility.

Proposed Solution & Architecture

Graaho Technologies, an AWS Select Tier Services Partner, designed and executed an end-to-end AWS migration and modernization strategy for Komidaz. The approach focused on:

Cloud Architecture Highlights:

- **Serverless-first model** using **AWS Lambda** for scalable backend logic
- **Amazon RDS (PostgreSQL)** for managed relational data
- **Amazon ElastiCache** for caching frequently accessed content
- **Amazon API Gateway + Amazon Cognito** for secured API management and user authentication
- **Amazon SNS & Amazon SES** for real-time notifications and email services
- **Application Load Balancer & Auto Scaling** to handle variable workloads

Security & Governance Enhancements:

- **Amazon GuardDuty & Amazon Inspector** for real-time threat detection and vulnerability scanning
- **AWS Security Hub & AWS Config** for centralized compliance management
- **AWS CloudTrail** for activity logging and auditability
- **IAM + VPC Security Groups** to enforce least-privilege and network segmentation

DevOps & Observability Stack:

- Fully automated **CI/CD pipeline** using **AWS CodePipeline**, **CodeBuild**, and **CodeDeploy**
- Centralized monitoring and alerting via **Amazon CloudWatch**

Outcomes of Project & Success Metrics

Key Area	Before Migration	After AWS Migration
Application Performance	Lagged during peak hours	Responsive and scalable with AWS Lambda
Deployment Time	1–2 hours with manual risks	~10 minutes with automated CI/CD pipeline
Server Management	Manual, error-prone	Fully automated with serverless architecture
Security & Compliance	Reactive and siloed	Centralized, continuous, GDPR and SOC 2 aligned
Monitoring	Minimal visibility	Real-time insights with CloudWatch
Infrastructure Costs	Fixed and growing	Optimized, pay-as-you-go model
Database Load	Bottlenecks during spikes	Offloaded with ElastiCache-based caching

Total Cost of Ownership (TCO) Analysis Performed

Graaho conducted a TCO comparison between the legacy environment and AWS cloud infrastructure. Key results:

- **40%+ reduction** in total monthly infrastructure spending
- **Zero CapEx** due to elimination of physical server maintenance
- **Increased developer efficiency** with CI/CD automation reducing deployment overhead
- **Right-sized architecture** avoided overprovisioning while scaling on-demand

The cost savings combined with productivity gains yielded a strong ROI within the first few months post-migration.

Lessons Learned

- **Serverless adoption** greatly reduces infrastructure complexity but requires careful event-driven architecture planning
- **Security automation** and centralized monitoring significantly improve risk management
- **Early investment in CI/CD** pipelines ensures smoother deployments and supports continuous innovation
- **Caching strategy** is crucial to improve responsiveness and reduce database load in high-traffic applications
- **Strong collaboration** between internal teams and the AWS partner accelerates migration and ensures alignment with business goals

Industry Vertical

Food & Beverage

Industry (Other)

Hospitality Technology, Restaurant Tech

Use Case

Cloud migration and modernization of a digital food ordering SaaS platform with a focus on serverless architecture, security compliance, and CI/CD automation.

ISV Tools and Technology Used

- **Infrastructure as Code (optional)**: Terraform or AWS CloudFormation
- **CI/CD Automation**: AWS CodePipeline, CodeBuild, CodeDeploy
- **Security Stack**: GuardDuty, Inspector, Security Hub, AWS Config, IAM, VPC
- **Monitoring & Logging**: Amazon CloudWatch, AWS CloudTrail
- **Authentication**: Amazon Cognito
- **Database & Caching**: Amazon RDS, ElastiCache (Redis/Memcached)
- **Messaging & Notifications**: Amazon SNS, Amazon SES

Related Services

- AWS Lambda
- Amazon RDS (PostgreSQL)
- Amazon ElastiCache
- Amazon API Gateway
- Amazon Cognito
- AWS CodePipeline
- AWS CloudWatch
- AWS Security Hub
- Amazon GuardDuty
- Amazon Inspector
- AWS Config
- Amazon CloudTrail
- Amazon SES, SNS

Related Competencies

- Migration
- Security
- DevOps
- Serverless Computing
- SaaS Enablement
- Cloud-Native Application Development

Customer Testimonial

"Migrating to AWS was a game-changer for KhaoDao. With Lambda and other AWS services, we've achieved faster response times, enhanced security, and the freedom to scale—while focusing more on our customers and less on infrastructure."
— *KhaoDao*

Summary:

Partner: Graaho Technologies

Customer: Komidaz Inc. USA (KhaoDao platform)

AWS Competency Areas: Migration, Security

Partner Role: End-to-end AWS migration, serverless architecture implementation, centralized security governance, CI/CD automation

Key AWS Services: AWS Lambda, RDS, ElastiCache, Cognito, GuardDuty, Inspector, Security Hub, CloudTrail, CodePipeline

Business Outcomes: Faster deployments, improved customer experience, enhanced security posture, cost optimization, operational efficiency