

TRAVEL CASE STUDY

Transforming Visa Processing: Journey to Scalability and Excellence

EXPERTS IN



EXECUTIVE SUMMARY

Embark on the journey of the client, a visionary in visa-related services, redefining the customer experience. Hailing from Colorado, the client specializes in efficient and transparent visa application processing. With a global outreach, the company aims to provide accurate visa information and streamline the visa application process, all while ensuring the utmost customer satisfaction.

THE CHALLENGE

- **Single Instance Struggles:** Initial reliance on a single EC2 instance led to performance bottlenecks and inadequate workload handling.
- **Redundancy and Fault-Tolerance Gap:** Lack of redundancy and fault tolerance in the application architecture raised concerns.
- **Migration and Modernization:** Migrating from PHP to Next.js while ensuring stability, security, and speed.
- **Nginx Proxy Integration:** Deploying Nginx as a proxy to enhance application performance.
- **RDS Integration:** Leveraging Amazon RDS for database management.
- **Global Scalability and Performance:** Navigating the challenges of global scalability while maintaining high performance and low latency.
- **Agile Deployment:** Simplifying code deployment processes for efficient updates.
- **Automation for Development:** Embracing automation to empower the development team's productivity.

The client recognized the need for a strategic partner and turned to 24x7servermanagement for our expertise in managed IT solutions.

AT A GLANCE

Challenges

- Performance & Automation
- Fault-Tolerance Gap
- Migration and Modernization
- Global Scalability and Performance

Benefits

- Application Stability
- Optimized Scalability
- Kubernetes Autoscaling
- Deployment Automation
- Cost Efficiency



"24x7servermanagement has been our true partner in our journey to reshape the visa processing landscape. Their expertise in managed IT solutions and AWS proved invaluable as we navigated through complex challenges."

- Frankie



OUR SOLUTIONS

24x7servermanagement crafted a comprehensive partner solution.

- **Expertise Enrichment:** Our seasoned experts brought years of managed IT expertise and AWS acumen to the table.
- **Containerization Excellence:** With a proven track record in Containerised Orchestration and Kubernetes-based deployments, we were poised to deliver excellence.
- **KOPS Adoption:** We recommended and implemented Kubernetes Operations (KOPS), leveraging its capabilities for cluster management, upgrades, and add-ons.



TECHNOLOGY STACK

- **Amazon EC2 Auto Scaling:** Horizontally scales EC2 instances on demand, managing high traffic and load.
- **Amazon Elastic Load Balancer:** Distributes traffic to EC2 instances in an autoscaling environment.
- **Amazon S3 Bucket:** Stores static and dynamic content efficiently.
- **Amazon CloudWatch:** Monitors various aspects of AWS infrastructure, ensuring optimal performance.
- **Amazon Aurora MySQL:** Hosts the application database with a multi-AZ environment.
- **Amazon Elastic File System:** Provides persistent volumes for Kubernetes deployments.
- **Amazon ECR:** Safeguards images on private repositories with IAM-based permissions.
- **AWS Certificate Manager:** Deploys SSL/TLS certificates for secure connectivity.



THE ADVANTAGES

- **Deployment Automation and Scalability:** Custom scripts streamline image building from updated source code, ensuring seamless deployment and scalability.
- **Enhanced App Stability:** A cloud environment ensures stability and availability even under high traffic.
- **Optimized Scalability:** Kubernetes' autoscaling capabilities optimize resource allocation for peak performance.
- **Cost-Efficiency:** Cost efficiencies and savings in cloud operations.
- **Swift Migration:** The platform successfully migrated to Amazon Kubernetes in a remarkable span of two months.

FOR MORE DETAILS, PLEASE CONTACT US

Ready to revolutionize your visa processing experience and unlock the potential of seamless scalability and high performance?

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