



AWS-Driven Financial Innovation through Serverless and Containerized Architectures

Executive Summary

nubi, a financial solutions innovator, sought to elevate its infrastructure for enhanced security, scalability, and efficiency. With **binbash's** expertise, **nubi** harnessed the power of AWS, Kubernetes, Kops, serverless technologies, and more to craft a state-of-the-art digital ecosystem.

Challenge


Tunubi's challenge was twofold: modernize its infrastructure to support its financial offerings and ensure top-tier security and scalability. The goal was to integrate advanced technologies seamlessly.

Solution


binbash, leveraging its deep expertise as an AWS Partner, crafted a solution that integrated:

- **Kubernetes:** For container orchestration, ensuring seamless deployment and management of applications.
- **Kops:** For Kubernetes cluster management, enhancing the scalability and reliability of the infrastructure.
- **Grafana:** An open-source visualization tool integrated with Prometheus for real-time monitoring and analytics.
- **CloudFront via CloudFormation:** For content delivery, ensuring fast and secure delivery of data to end-users.
- **Serverless Architectures:** Utilizing AWS services like API Gateway for creating, publishing, and securing APIs; Lambda for serverless computing; Cognito for user identity and authentication; and DynamoDB for a managed NoSQL database service.

By integrating these technologies and serverless architectures with AWS services and DevSecOps practices, binbash provided **nubi** with a robust and agile infrastructure tailored to their specific needs.



nubi is renowned for its innovative financial solutions. As the financial sector evolves, the need for a modern, secure, and scalable infrastructure became paramount.

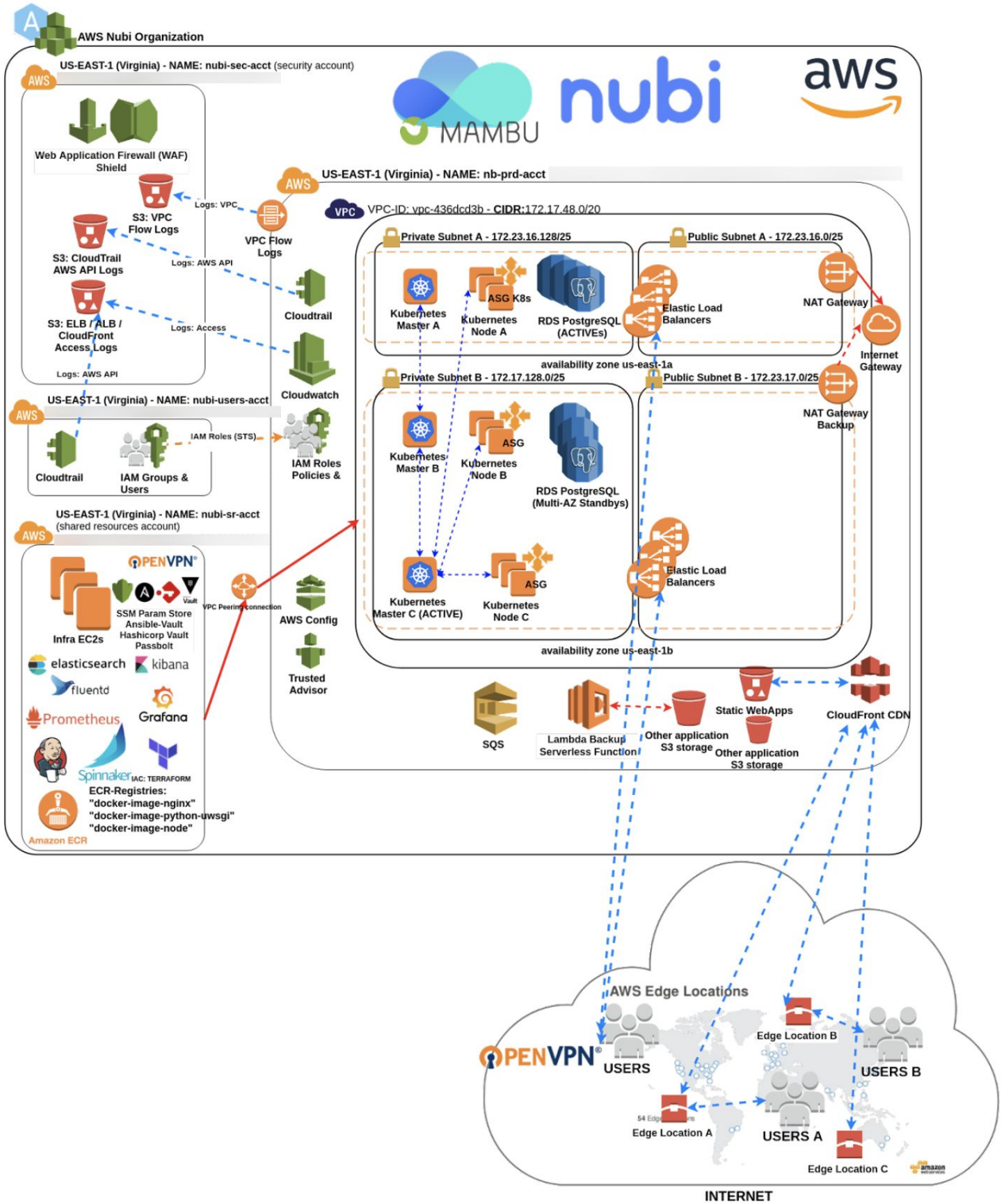


binbash helped us build a resilient, future-proof AWS infrastructure in record time. They will not only do things for you, they will transfer all the knowledge and make you part of the decision. They are always thinking about re-usability, security and scale. The binbash team is not only technically proficient but they are really nice human beings.

Felipe Lerena, Soft Architect



Cloud Solutions Tech Stack





Results

Post-implementation, Tunubi experienced:

- Enhanced security measures, ensuring data protection and compliance.
- Improved scalability, catering to the growing demands of their financial solutions.
- Seamless integration of advanced technologies and serverless architectures, leading to operational efficiency and agility.
- Real-time monitoring and analytics, providing actionable insights.

The collaboration has solidified Tunubi's position as a leader in the financial solutions industry, with a clear path for future innovation.

Key Milestones

Initial Assessment, Design & Architecture Planning

Initiation of the project with a comprehensive assessment of Nubi's existing infrastructure and identification of areas for improvement. Development of the Cloud Solutions Architecture blueprint, focusing on integrating AWS, Kubernetes, Kops, and serverless technologies.

Serverless & Container Integration

Implementation of serverless architectures using AWS services like API Gateway, Lambda, Cognito, and DynamoDB. Introduction of containerized solutions with Kubernetes.

Security & Compliance Enhancement + Monitoring & Analytics Integration

Strengthening of security measures, ensuring data protection, and achieving HIPAA compliance. Integration of Grafana with Prometheus for real-time monitoring, analytics, and actionable insights.

Post-Deployment Assessment, Feedback, Continuous Improvement & Support

Evaluation of the project's success, gathering feedback, and identifying areas for further improvement or optimization.

Ongoing monitoring, updates, and optimizations to ensure the infrastructure remains cutting-edge and meets Nubi's evolving needs.