CASE STUDY

Securing Digital Frontiers: Adaptive Trust Architecture and Geo-based Security Implementation

CONTATA

OVERVIEW

The client operates in the digital security domain, providing cutting-edge solutions to ensure efficient and effective access security for businesses' digital assets. Their flagship offering is a multifactor authentication application for smartphones, tablets, and laptops designed to meet the evolving security needs of modern enterprises.

CHALLENGES

The client approached Contata with a strategic vision — to develop a robust API facilitating rapid integration — not just into their existing systems but the entire platform. Additionally, they sought a highly secure, elastic, and scalable Adaptive Trust Architecture hosted on a flexible cloud-based infrastructure. A key feature was the implementation of geolocation-based usage controls for credit/debit cards, enabling users to swap cards within defined geographical boundaries.

INDUSTRY
- Digital Security

SERVICES
- Adaptive Test Architecture
- Geolocation-based Security

TECHNOLOGY
- Angular JS
- Java
- Spring Boot
- Hibernate
- Microservices
- AWS
- Kafka
- Redis

SOLUTION

Contata's IT team embarked on a journey to elevate business values of the client's application. The project involved management of users, assets, devices, and geofences, creating associations to secure digital assets based on the end customers' geographical locations.

Leveraging diverse technologies and architectural enhancements, our team established a solid database and web application architecture. Contata meticulously handled UI integrations with the backend, making the process seamless. The solution focused on three key modules:

Module 1 - System Administration

In System Administration, we ensured secure deployment, including patches and updates for mobile applications on both iOS and Android devices. It also included software configuration and database maintenance to ensure optimal performance and data reliability.

Module 2 - Client Administration

For Client Administration, our expertise in user profiles, device management, and boundary definitions streamlined administrative processes. We strategically incorporated fraud detection measures to enhance the security of digital documents.

Module 3 - MFA Implementation

The MFA Implementation involved leveraging diverse technologies to secure digital assets based on geographical locations with seamless UI integrations.

BENEFITS

- Strengthened the client's digital security infrastructure to protect confidential information.
- Prevented would-be hackers from activating user accounts.
- Rapid API integration, robust security, and geolocation-based card usage controls.
- A highly scalable and elastic platform.

About Contata

Contata Solutions is a trusted leader in technology and digital innovation. Through our work in data engineering, data analytics, machine learning, marketing automation and app development, we deliver solutions that address complex problems in ways that are simple, insightful and impactful.

Our promise and value proposition to our customers is simple: we leverage our deep technical expertise and global presence to bring software products and data-driven decision capabilities to life.

Founded in 2000, Contata is a privately-held company headquartered in Minneapolis that serves clients globally from offices in the United States and India.