ZNIFA
REDEFINING DIGITAL TRANSFORMATION

CASE STUDY 2

OPTIMIZING SECURITY CONTROLS



CORE TECHNOLOGIES

GoLang, Apache Nifi, AWS, MySQL

INTRODUCTION

This case study revolves around the development of a Continuous Control Monitoring Tool by Znifa in collaboration with Quod Orbis, a UK-based Cyber Security Product Company. The tool aimed to streamline security controls and improve efficiency in security audits by automating control monitoring and evidence management processes.

RESOURCES ENGAGED

The development team of Znifa consisted of two members. Team collaborated with Quod Orbis, leveraging their expertise in GoLang, Apache Nifi, Elastic Search, and other relevant technologies.

ENHANCING SECURITY AUDITS

Automated Continuous Control Monitoring Tool for Efficient Tracking and Evidence Management

PRODUCT SYNOPSIS

Znifa's Continuous Control Monitoring Tool leveraged a combination of cutting-edge technologies, including GoLang, Apache Nifi, Elastic Search, and Grafana. The tool facilitated data integration from various source systems using Apache Nifi, extracting relevant information based on search criteria, and inserting it into a centralized platform database.

The platform's dashboard, built with GoLang, provided visual charts and insights to monitor security controls effectively. Additionally, Znifa worked closely with the Quod Orbis team to onboard customers and customize the tool for their specific environments. The integration of AWS, Bitbucket, Jira, Confluence, and MySQL ensured a robust and scalable solution.

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SOLUTION IMPLEMENTATION

Znifa's development team collaborated closely with Quod Orbis to implement the Continuous Control Monitoring Tool. They utilized GoLang, Apache Nifi, Elastic Search, Grafana, AWS, and other technologies to build a robust solution. Data integration from various source systems was achieved through Apache Nifi, and the extracted data was stored in a centralized platform database. The platform's dashboard, developed using GoLang, provided intuitive charts and visualizations for efficient monitoring of security controls. The tool was implemented following agile development methodologies, ensuring iterative improvements and alignment with customer needs.

KEY CHALLENGES

- Ensuring seamless data integration from various source systems using Apache Nifi.
- Designing an efficient search and retrieval mechanism based on specific search criteria using Elastic Search.
- Creating a user-friendly and visually appealing dashboard using GoLang and Grafana for easy monitoring of security controls.
- Customizing the tool to accommodate different customer environments and onboarding processes.
- Collaborating with the Quod Orbis team to align the tool with their specific requirements and security standards.

RESULTS AND DATA

- Significant reduction in manual effort and time spent on security control monitoring, estimated at approximately 40%.
- Improved efficiency in providing evidence during security audits, with an average reduction of 30% in audit preparation time.
- Enhanced visibility and insights through intuitive dashboards and visual charts, resulting in a 25% increase in data-driven decision making.
- Seamless integration with customer environments, enabling efficient onboarding and customization for over 10 clients.
- Positive feedback from clients, with a satisfaction rate of 90% reported in post-implementation surveys.

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