

Design and Implementation of a SIEM System Based on ELK Stack for Cybersecurity Monitoring at the Financial Services Company "TechBank"

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Abstract: In practice, ensuring cybersecurity for financial institutions is a critical issue. This topic focuses on designing and implementing a SIEM system based on the ELK Stack for cybersecurity monitoring at TechBank Financial Services Company. The objective of the research is to address the efficiency problem in collecting, processing, and analyzing log information from various sources. The approach includes evaluating existing technologies and implementing a practical application. The expected result is to build a flexible and highly automated SIEM system, providing significant support for TechBank's information security efforts.

Keywords: SIEM system, ELK Stack, Cybersecurity, Financial Services Company, TechBank