

ABSTRACT

Data and information security is a crucial aspect that must be prioritized before following the rapid development of information systems in today's digital era. An information system is a formal system designed to collect, process, store and distribute information. One of the information systems at the Surabaya City Library and Archives Office is the Surabaya City Dispusip website, which functions as a publication tool to convey information and descriptions related to services in the field of Libraries and Archives. However, the information system security on this website still uses the old protocol, which indicates a lack of awareness of the importance of website security. As part of the Information Systems Study Program, this research makes an important contribution in emphasizing the role of information systems experts in identifying and overcoming security gaps, ensuring data integrity, confidentiality and availability in an increasingly complex digital era. This research aims to analyze information system security gaps and threats on the website using the ISSAF (Information Systems Security Assessment Framework) framework. ISSAF is a guide and framework used to identify, evaluate, and provide recommendations related to information security in an organization's information system. The results of this research are recommendations for improvement, including updating the security protocols and programming languages used by the IT division of the Surabaya City Library and Archives Office to the latest version. The recommendations include using a firewall, filtering and limiting ports, disabling some port services, and using a Web Application Firewall (WAF).

Keywords —Data and Information Security, Dispusip Website, Security Testing, Recommendations for Improvement, Security System Improvement.