ABSTRACT

ISSAF FRAMEWORK TESTING
ON THE TRACER STUDY WEBSITE
AT IT TELKOM PURWOKERTO

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The use of information technology, including the use of web-based Information System applications, has a major role in the progress of an educational organization such as IT Telkom Purwokerto. However, it must be acknowledged that web-based information systems can have security vulnerabilities that can be exploited using the internet. This exploitation has the potential to result in losses not only in material or non-material terms. The aim of this research is to evaluate the security level of the Tracer Study Information System, a web-based application owned by IT Telkom Purwokerto, through the use of the Information Systems Security Assessment Framework (ISSAF) methodology. ISSAF is a structured and directed framework used to group information, evaluate, and report the results of system security testing for the domain being tested. The Tracer Study Information System owned by IT Telkom Purwokerto has never undergone security testing before, so there are concerns about the possibility of exploitation that could be detrimental to IT Telkom Purwokerto. On this basis, it is hoped that this research will be able to reveal in more detail the impact of security vulnerabilities contained in the web application, so that the necessary mitigation steps can be formulated.

Keywords: ISSAF, Penetration Testing, Web Security Analysis, Kali Linux.