ABSTRACT

IMPLEMENTATION AND ANALYSIS OF SECURITY AUDITING USING THE OPEN SOURCE SOFTWARE WITH THE *FRAMEWORK CYBER KILL CHAIN*

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Security Auditing is a systematic evaluation of information system security by measuring how well and in accordance with a set of established criteria. One of the frameworks of Security Auditing is Cyber Kill Chain, this framework allows a security analyst to focus on various stages of an attack. Therefore, security auditing implementation and analysis is made based on the Cyber Kill Chain framework to provide information about the benefits of Security Auditing.

This research was conducted by using the operating system vulnerability as an object that was scanned with the OpenVAS open source application to conduct a vulnerability scan. From the results of research conducted on 10 walkthroughs obtained the results of the analysis in the form of activity diagrams and Data Flow Diagrams will then be grouped based on the calculation of the risks obtained. So that the classification will be obtained in the form of a relationship between tools and vulnerabilities formed into an attack tree based on the Cyber Kill Chain framework.

Keywords: Security Auditing, Cyber Kill Chain framework, attack tree, tools, Vulnerable.