

ABSTRACT

IMPLEMENTATION AND ANALYSIS OF SECURITY AUDITING USING THE OPEN SOURCE SOFT WITH STRIDE FRAMEWORK

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Security Auditing is an evaluation system of the network behavior for the user or equipment, and then provides instructions to prevent the occurrence of an attack. The research aims to determine the risk estimation of vulnerabilities and threats to operating system vulnerabilities (VulnOSv2) and denote as a component for the preparation of a security auditing system. With the use of 10 walkthroughs, comparative analysis can be done in Lot stages and also application of attack tools.

The simulation was done to find the scanning vulnerability and attack on the Walkthrough by implementing on operating system vulnerabilities on VirtualBox as an object research and using open source software called OpenVAS. Analysis results from estimated risk between vulnerability and threat data of 97.5. Then compiled by using an attack tree associated with the STRIDE Framework for preparing the Security Auditing system obtained percentage yield of 50%.

Keywords: Security Auditing, Open Source, Risk estimation, Attack Tree, STRIDE Framework