SECURITY ANALYSIS OF POLYTEKNIK NEGERI BENGKALIS WEBSITE USING VULNERABILITY ASSESSMENT AND PENERATION TESTING

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ABSTRACT

Politeknik Negeri Bengkalis has a website that is used to facilitate academic and non-academic activities such as registration, announcements, and information about campus activities. In today's increasingly developing digital era, website security is very important to maintain data confidentiality, prevent data misuse, and protect websites from hacker attacks. This study aims to determine the vulnerability of the Polbeng.ac.id/official website using the Vulnerability Assessment and Penetration Testing methods. The results of this study are the results of testing using zenmap obtained 19 ports that are open on polbeng.ac.id. At the Scanning stage using Acunetix, there are several top vulnerabilities obtained, namely Cross site scripting, Apache httpd remote denial of service, HTML form without CSRF protection and exploitation testing using SQL Injection techniques and XSS techniques with the results unable to see security holes, it can be concluded that the scanning results show that there are as many as 31 security holes found Acunetix sets a high risk level (Threat Level 3) for these vulnerabilities, which indicates a high level of risk or a serious threat to website security, and reports from these stages can be the basis for improving the quality of website security so as to prevent website vulnerabilities.

Keywords: Security, Information, Web, Vulnerability Assessment, Penetration Testing