

ABSTRACT

WEBSITE SECURITY ANALYSIS OF CAPITAL INVESTMENT AND INTEGRATED SERVICES ONE DOOR IN REGIONAL GOVERNMENT XYZ USING PAROS, NMAP, AND VEGA TOOLS

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Protecting the system from an attack is important in the information system security process. Therefore we need a method to maintain the security and confidentiality of data, so that the data can only be accessed by certain people. Weaknesses on a website will never be known if not done Vulnerability Assessment and Penetration Testing. Vulnerability Assessment and Penetration Testing processes are carried out with the aim of obtaining a system vulnerability gap from the website. Gap from the website will be used as parameters for providing solutions or proposals to improve the system. In this Final Project research aims to conduct vulnerability testing of the Capital Investment And Integrated Services One Door In Regional Government Xyz. There are three tools that are carried out for testing the vulnerability, namely Paros, Nmap, and Vega. The results of vulnerability testing on the target website in this study will be used as a parameter to provide recommendations or proposals to minimize any vulnerabilities that exist. The method used in this thesis is Black Box Testing. This Final Project uses the concepts of Confidentiality, Integrity, and Availability (CIA).

Keywords : *Vulnerability Assessment, Penetration Testing, Kali Linux, Web Vulnerability Scanners, Web Application.*