ABSTRACT

IMPLEMENTATION OF NETWORK SECURITY ON CLOUDFRI WITH HARDENING METHOD

By:

MUHAMMAD IRWANDA IRAWAN

1202174205

Hardening is the process of securing a system on a computer network to reduce vulnerability to hacking attacks. Types of hardening there are backup, firewall, cryptography, security policy, Intrusion policy system, digital forensics. The hardening method used is penetration and vulnerability by using a scenario that has been created. It can evaluate the layout and configure the network to avoid threats that lead to the exploitation of vulnerabilities in an environment of outdated hardware, software and security protocols. This research uses an object in the form of a website igame.cloudfri.id which is managed by the industrial engineering faculty. The research aims to analyze the vulnerability of the igame.cloudfri.id website and provide suggestions. The implementation of testing in this study uses NMAP and Nikto tools available on the Kali Linux operating system. the results of the research with the method that has analyzed the vulnerability that the website is vulnerable to hacking attacks because it does not have anti-clickjacking, XSSprotection, x-content-type-option.

Keywords : Hardening, Penetration, Vulnerability