WIRELESS SECURITY ANALYSIS OF ATTACKS DENIAL OF SERVICE USING METHOD PENETRATION TESTING IN THE XYZ SERVICE

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ABSTRACT

This research is to analyze the security of wireless networks against DoS attacks by applying the Penetration testing method in the XYZ service. This research will focus on identifying potential weaknesses in wireless networks that make them vulnerable to DoS attacks and examine the effectiveness of penetration testing in detecting and responding to DoS attacks. The author of this research proposes two solutions to improve the security of the wireless network at the XYZ office. The first solution is to carry out Hping3 analysis to detect wireless networks. The aim is to ensure that the penetration testing that has been implemented functions well and is able to detect DoS attacks effectively. Problems in configuration or system failures can reduce the effectiveness of penetration testing in detecting DoS attacks. Furthermore, as for the results of this research in carrying out a successful DoS attack, the proposed solution is to carry out an analysis with the Wireshark Tools Kali Linux for exchanging data packets on wireless that carry out a DoS attack manually so that monitoring the results of the DoS attack can be proven to be successful. For the next solution to prevent DoS attacks from occurring, it is best to be able to apply Mac address filtering registration to secure the network from the threat of DoS attacks. This is the final solution in this research.

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Keywords: DoS attacks, penetration testing, Kali Linux