

ABSTRACT

WIRELESS NETWORK SECURITY TESTING USING STANDARD PENETRATION TESTING EXECUTION (PTES) METHOD

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Network security is becoming a very important aspect along with the increasing number of internet users. In this aspects of life are affected by the internet, including the scope of work. Kalisapu village hall office, Slawi, Tegal is a public service place in Slawi, Tegal which currently uses Wireless Local Area Network (WLAN) technology as a means of internet access and for various purposes, both administrative and other services to meet community needs. which only uses one wireless access point to access the internet network. Wireless networks must have good security to avoid various threats of crime, therefore it is necessary to analyze network security with the Penetration Testing Execution Standard (PTES) method, which is a framework or guide that is used as a reference to carry out network penetration. From the results of five testing with the router attack status was successful, while cracking the encryption had three failures and two successes. Based on the results of these tests, it can be concluded that the wireless network security system is quite safe, but some improvements need to be made to the configuration system and network topology to strengthen the security system and minimize the threat of crime.

Keywords: Network Security, WLAN, Penetration Testing Execution Standard