Penetration Testing of Vulnerability in Android Linux Kernel Layer via an Open Network (Wi-Fi)

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Abstract

Android Smartphones, which is highly competitive smart phone in market, stores an enormous amount of data locally and remotely which sometimes cause a big challenge in security feature encouraging hackers to inject the malicious code in Android OS to steal the confidential data.

The key focus of this paper is to analyze and investigate the vulnerability in Android OS by injecting malicious code through penetration tools in the Linux kernel layer. This work will involve to selecting one type of security threats in Android system which is a Wireless access point (Wi-Fi) to evaluate the vulnerability in Android to proof if possible to attack the Linux Kernel in Android system through the open Wi-Fi network. This test will be done by using the Metasploit Framework.

References


**Index Terms**

Computer Science | Software Engineering

**Keywords**

Android Smartphone, Linux Kernel Layer, penetration test.