Intrusion Detection in Wireless Network using BIOS and Motherboard Serial Number

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Abstract

The increase in use of wireless network has changed the view of network security. The wireless network is particularly susceptible due to its cooperative algorithms, features of open medium, dynamic changing topology, and lack of centralized monitoring and a clear line of protection. The traditional way of protecting wireless networks with firewalls and encryption software is not enough. The current trend in wireless security shows that new types of attacks are evolving at a fast rate and as many intrusion detection techniques have been developed on fixed wired networks but have been turned to be inapplicable in this new environment so, we need to search for new architecture and mechanisms to protect wireless networks and mobile computing applications. This paper firstly indicates the history of intrusion detection, then the problem in using MAC address as unique identification and then how BIOS, motherboard serial number can be used for intrusion detection.

References
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Index Terms

Computer Science Wireless

Keywords

Wireless Network, Intrusion Detection, MAC (Media Access Control) Spoofing, BIOS (Basic Input Output System) Filtering, Motherboard Serial Number.