Abstract

The feasibility of mobile ad hoc networks (MANETs) is gaining popularity widely. Due to its fundamental characteristics like dynamic topology, open medium, absence of infrastructure, limited power and limited bandwidth, these networks are more prone to malicious attacks. The prevention methods like encryption and cryptography are not sufficient to make them secure. The reason behind this is that these techniques focus on how to protect the data but do not take any action against the intruder. Therefore some detection mechanism must be deployed to facilitate the identification and isolation of attacks before an attacker breaches the system. This paper presents the existing architectures for intrusion detection systems (IDS) along with intrusion detection techniques in MANETs and their comparison.

References

- Y. Zhang, W. Lee, and Y. Huang, "Intrusion Detection Techniques for Mobile
Exploring Intrusion Detection Schemes and their Comparison in MANETs


Index Terms

Computer Science

Mobile Networks
Keywords
Mobile ad hoc network  intrusion detection system  malicious attack  encryption  cryptography