Abstract

Nowadays it is a vital role to provide a high level security to protect highly sensitive and private data. A lot of work is required to be done in the field of application of AI techniques to the field of network security. Firewall alone is just not enough to protect a corporate network from all type of internal and external threats. It is beyond the limits of conventional technologies to cope up with new and new attack patterns and exploitations of system vulnerabilities. Intrusion Detection System is a software or hardware device which is the essential technology in Network Security. Intelligent IDSs have to be developed. Today researchers have interested on intrusion detection system using Data mining techniques as an artful skill. In this paper, implement a model based on ID3 algorithm and proposed Exclusive ID3 algorithm which detects unknown attacks with the help of optimized decision tree from available set of data also follow predefined rules for accurate decision making for system Administrator.
An Efficient Algorithm for Network Intrusion Detection System

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Index Terms

Computer Science Security

Keywords

IDS Decision Tree Network Intrusion Detection ID3 algorithm Time-To-Live Value Intrusion Attacks