Abstract

Nowadays it is very important to maintain a high level security to ensure safe and trusted communication of information between various organizations. But secured data communication over internet and any other network is always under threat of intrusions and misuses. To control these threats, recognition of attacks is critical matter. Probing, Denial of Service (DoS), Remote to User (R2L) Attacks are some of the attacks which affects large number of computers in the world daily. Detection of these attacks and prevention of computers from it is a major research topic for researchers throughout the world. In this paper idea for use of a Genetic Algorithm (GA) based approach for generation of rules to detect Probing, DoS and R2L attacks on the system is proposed.
Denial-of-Service, Probing & Remote to User (R2L) Attack Detection using Genetic Algorithm

Index Terms

Computer Science

Security

Keywords

Probing   Denial of Service and Remote to User attacks   Genetic Algorithm

Intrusion Detection System Rule Set

KDD Cup 99 Dataset