

ABSTRACT

AIRIDS is a network security which aim to form an architecture of integrated security system among Intrusion Detection System (IDS), Firewall System and Database System. This system capable to react automatically to all form of thread by write the rules on iptables program base on intruder's ip address. A problem occurs when a user and an intruder on the same network with a global ip address are accessing a server with AIRIDS security system. If an intruder attack the server, the server will react automatically blocking the global ip address, another user no longer access the server anymore.

In this final assignment is designing and implementing the automatic packet filtering to develop AIRIDS network security. Automatic packet filtering system could write the rules on iptables automatically base on packet information which is destination IP address, source IP address, type of protocol, source port and destination port. The methods of this designate are object oriented with UML modeling.

The product of this final assignment is a network security system using packet filtering methods. This automatic packet filtering system working with less resource. The system builds with Java programming language. Using the automatic packet filtering system will increase the user accessibility and secure the system.

Keywords: Intrusion Detection System (IDS), accesibility, automatic packet filtering, database, firewall