ABSTRACT

Internet use as a means of information and communication is needed. Along with the grows of the internet, security problems in data network becomes a very important requirement for agencies that have data that is privacy. Users can solve these problem by using a router that can be controlled or a router that can be ordered as what happens.

In these thesis research described how a system that can overcome tha above problems by using cost base decision method, where this method is a method that takes into account the cost and then routers need a program that can receive a command and execute any commands that should be done in real-time, so the server does not directly burdened with their attacks

This final project focuses to can create a system that can facilitate proper handling to find out how many attacks that can be overcome so as not to burden the existing memory load. Host-base firewall program put in the server side or user and a router can transmit data one point to point using socket iptables as a traffic controller for data networks and executor of attacker.

Keyword : *Cost Based Decision, Socket, Iptable, real time sending data, host-based firewall.*