ABSTRACT

Firewall is one of methods for protect security and network. At the basic, firewall can be said that is inspector who evaluated ingoing and outgoing traffics between internal network and outside, giving permission for selected traffic, and also blocking another one. We could using tools and software like traffic filtering, using devices which are special designed for fungtional of filter, etc.

One of methods which can be used in traffic control is Stateful Packet Inspection. It is a method to compare parts of selected key from packets to trusted information database. Internet packets which traveling to internal network will be monitored based on selected characteristic, then compare with fixed Stateful table. If the output packet appropriate with the table, then firewall gives permission for the packet to travel. In other hands, firewall will throw away packet if its does not appropriate with the table. For network administrator, this method very useful for monitoring and controlling data traffic.

Simulation will give more explanation about firewall function principal. Stateful Packet Inspection method which is used in Cisco PIX is effective to process filter data, during administrator make useful stateful table as according to requirement, because placement of policy table have an effect to network performance. Cisco PIX is appropriate for replace of router function to filter the data, it is so helpful to decrease gateway work.

Keyword :

Stateful Packet Inspection, PIX Firewall, Packet Filter, Extended Access List