Visual Firewall
Interface to Configure IP Tables and View Traffic in Real Time

Abstract

The Visual Firewall is a web application that seeks to graphically display in real-time the traffic that moves through a client network. In doing so, the Visual Firewall conveys information about the traffic easily to network professionals. The application communicates with the Unix/Linux IPTables to obtain packets from live traffic and display the information about those packets within a browser. Network professionals, like system administrators, then use this information to easily analyze traffic and adjust the configuration of IPTables accordingly.

Results

Architecture

Impact

Visual Firewall is a highly functional and helpful tool for system administrators and IT professionals to monitor and configure their networks. It's versatility in displaying information will help users of varying experiences to identify, analyze, and modify the traffic that moves through their network. It may also prove to be a useful teaching tool to help novices learn about the structure of a network and its traffic.

Summary

In all Visual Firewall will have the following functionalities:

- real time graphical traffic display
- buffering of traffic while in analysis
- custom speed of traffic display for better manual analysis