Abstract

This paper presents the design and implementation of a technique that can be used in a real-time network monitoring. It provides a Real-Time Network Monitoring System (RTNMS) that allows a host to capture any packets in a network by putting the host's Network Interface Card (NIC) into the promiscuous mode. Modular design has been devised. RTNMS consists of five modules that are integrated to give the required features. These features automatically give system administrators a helping hand in management and fault detection on a network. RTNMS is user-friendly because it has been augmented by a user interface to assist in navigating the capture and analysis of packets. It can be tapped into an enterprise network with high flexibility. It can significantly increase the efficiency of data capture and network monitoring through the association of various modules.

References

Development of a Flexible Real-Time Monitor for an Enterprise Network


Index Terms

- Computer Science
- Networks

Keywords

- Passive Monitoring
- Network Packet Capture
- Promiscuous Mode
- Real-time
- Network Analysis.