DESIGN AND IMPLEMENTATION OF IPV4 ROUTING INFORMATION PROTOCOL

SARBJEET KAUR BRAR & AMANDEEP SINGH

Electronics and Communication Department, BMS College of Engineering, Muktsar Sahib, Punjab, India

ABSTRACT

This paper describes the concept of Routing Information Protocol(RIP) provides the standard IGP protocol for local area networks and provides great network stability, guaranteeing that if one network connection goes down the network can quickly adapt to send packets through another connection.RIP uses Hop Count as it's only metric. The maximum number of hops allowed for RIP is 15. Comparison of different parameters of the network such as total number of updates for the routing table, time between updates are discuss in this paper. Comparative results also show that the failure of one node has a greater impact over the performance of the network. Computer simulations for all the cases are carried out using OPNET software and experimental results are presented. Hence, it is found that this protocol is very useful application layer protocol used in IPv4 routing for the tracking packet routing information.

KEYWORDS: Computer Labs, Graphical User Interface (GUI), Optimized Network Engineering Tool (OPNET), Routers