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Abstract

A process of forwarding data on a route from source to destination is termed as routing. This process of routing data from source node to destination node is accomplished by using its protocol. Routing protocols have the responsibility of movement of data through optimal path. As routing protocol play a vital role in infrastructure of computer network, more emphasis is given to routing protocols with security constraints. EIGRP is a distance vector routing protocol which is based on DUAL (Diffusing Update Algorithm), OSPF is an interior Dijkstra algorithm based protocol. OSPF is a link state interior gateway protocol. In first, proposed network topology has been configured with EIGRP and OSPF protocols with IPV6. Then routers are authenticated using MD5 and SHA algorithms. Performance is evaluated in terms of jitter and delay time. Average delay time and average jitter time are calculated for OSPF MD5, OSPF SHA, EIGRP MD5 and EIGRP SHA. It is observe that average delay time and average jitter time for OSPF MD5 is less then EIGRP MD5 and average delay time and average jitter time for OSPF SHA is less then EIGRP SHA.

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Index Terms

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Keywords

MD5, SHA, OSPF, EIGRP, Jitter.