Abstract

Dynamic Multipoint Virtual Private Network “DMVPN” is a solution for the dynamic creation of virtual Private IP tunnels between multiple sites automatically, quickly and with the least configuration. Routing protocols are component technologies’ main parts of the DMVPN solution, they ensure the smooth establishment of tunnels and have a major impact on network’s behavior and transported applications, many works have been conducted assessing the performances of DMVPN network with various routing protocols, this paper enhances and complements other studies, firstly by offering suitable configurations of routing protocols recommended for a scalable DMVPN network, secondly by studying scalability of DMVPN by varying number of sites and dynamic routing protocols. Used evaluation criteria are: Initial convergence delay, Sent traffic, Throughput, Queuing delay.

References


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Index Terms

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Keywords

DMVPN; Performances; Routing protocol; Convergence delay; scalability; EIGRP; BGP; OSPF.