Abstract

The continued development of internet technology, led to increasingly crowded internet connectivity. The de facto BGP (Border Gateway Protocol) routing protocol is widely used as a global internet. Fullmesh mandatory requirement for every iBGP router, allowing the formation of many iBGP session between routers, and this can increase the amount of routing information in routing tables.

Confederation method is a method that can be used to reduce the amount of information in the routing table, ie by dividing the AS cloud into several sub-AS. In this final project is implemented method to Emulate Confederation with CISCO routers and analyzed some of the QoS parameters, namely: end to end delay, throughput, and the forwarding delay.

From the test results can be concluded that the BGP Confederation forwarding performance is always superior because of the amount of routing information that is in the forwarding table to be much less, so that the lookup table is faster and End-to-end delay and throughput in the Confederation would be better if the number of hops that is passed as the number of hops on fullmesh. But the end to end delay and throughput in the Confederation becomes worse if the number of hops through which more than fullmesh.

Keywords : BGP, *confederation*.