

ABSTRACT

Protocol is a rule that is used for multiple computers to communicate in a network. FTP stands for File Transfer Protocol is a protocol used to exchange information from one user to another user. FTP Server is a server that contains the files you want in sharing in a network. Network is a forum for communication between multiple computers. The network also allows us to exchange information with one another. Use together with certain data about an activity that is often done today. However, sometimes we often complain about the nexus broken during the exchange of information.

In this final project, will be the implementation and performance analysis of active-standby feature use MPLS tunnel to support the FTP Server service. Features active-standby MPLS tunnel made to facilitate the course of communication in the event of disruption of communication break. It works using two tunnel that is always active, which is where the tunnel has become one of the main path, and the other standby as a backup route when the main route to crash. By enabling these features it is expected that the network will use other tunnel as the main route to crash. So disruption will not be felt.

From conducted implementation result showed that the use of active-standby feature MPLS tunnel can produce a better QoS. Judging from the results of throughput, round trip time, retransmission, and link utilization obtained from the network technology that uses active-standby MPLS tunnel has a better value than the network features of non-active-standby MPLS tunnel. Features active-standby MPLS tunnel can increase throughput up to 68 845%, improving to 35.83% minimize retransmission round trip time up to 55.5538%, give the value of link utilization 42.68% higher than non-feature active-standby MPLS tunnel, and give the value of availability up to 99.99957264%.

Keywords : FTP Server, MPLS, active-standby