

ABSTRACT

As information technology develops today, the need for information increases. Where everyone needs information quickly, briefly and accurately. So we need a facility that can support this. Therefore, Virtual Private Network (VPN) was created to solve problems in unsecured networks. Virtual Private Network (VPN) has several tunnels that can be used, such as Point to point Tunneling protocol (PPTP) and Layer Two Tunneling Protocol (L2TP). This research will analyze and compare the performance of the PPTP VPN protocol and the L2TP VPN protocol. The tunneling that the IPV6 based network will use. This research aims to determine the performance between the two tunneling protocols, namely PPTP and L2TP, as well as to provide information to admins about the performance results of the two tunneling protocols, namely PPTP and L2TP. The QoS (Quality Of Service) parameters that researchers will use are: Delay, Jitter, Throughput and Packet loss.

Keywords: *Virtual Private Network (VPN), Point to point Tunneling protocol (PPTP) and Layer Two Tunneling Protocol (L2TP).*