ABSTRACT

VPN is a unification of the tunneling technology and the encryption technology. Tunneling technology is to handle and to supply point-to-point connection from the source to the objective. Whereas the encryption technology is to assure the secrecies of the data which is running on the tunnel. There are three (3) Server of Local Area Network (LAN) in a computer system, each server has a different network service. Those are the Database Server, Web Server, and Mail Server. Every server is applicated Virtual Private Network (VPN) service, the technology of Virtual Private Network (VPN) that will be used is site-to-site technology. In the implementation, to be able to connect between a network with another network, in each network has a gateway which in this last project is used a Raspberry Pi as Virtual Private Network (VPN) server to do the simulasition of the application of site-to-site service Virtual Private Network (VPN). From the simulation which has ben done, it will be got the data about the expedience of Raspberry PI as the Virtual Private Network (VPN) server by referring to the result of security trial an Quality service (Qos) of site-to-site service Virtual Private Network (VPN) Raspberry Pi, with Point-to-Point Tunneling Protocol (PPTP).

Keyword: Site-to-Site Virtual Private Network (VPN), Point-to-Point Tunneling Protocol (PPTP) Rapberry Pi, Web Server, Mail Server, Database Server