ABSTRACT

Servers as service providers on computer networks have an important role in the company. To overcome security problems in the network from hacking crimes that can enter internal computer networks, a VPN technology is needed. VPN (Virtual Private Network) is a communication technology that allows private networks to be connected to other networks through a public network. With this VPN, users can connect to a public network and use it to join the local network. From this it requires access to the company's local IP by using a VPN network so that users can join in the local network and get the same rights and settings as when the user is on a LAN network. So that the user can communicate with the local LAN network in a company agency.

This Final Project has been created and implemented a Virtual Private Network (VPN) server by using a proxy OS installed on the Mikrotik Router Board at PT. Charisma Persada Nusantara.

The results of functional testing of the system can function properly as desired by the company, that is, the user has obtained access rights and can be connected to a wide local network at a relatively small cost. The need for a VPN server to share files can be tested at PT. Charisma Persada Nusantara as a means to fulfill the requirements for technology in implementing VPN servers and can also be used by small to medium scale companies that want to build private networks on public networks.

Keywords: Virtual Private Network, Mikrotik Router Board, Private Network, Public Netwotk