

## Abstract

Confidentiality of data is one of the important things on the Internet. With a VPN (*virtual private network*) allows a communication technology can be connected to public networks and using it to join the local network. Using a public network, the user can access the available features on its local network, get the rights and the same settings as we are physically located where the local network is located. The missed data will be encapsulated (wrapped) and is encrypted so that data confidential.

One of the virtual private network technology used is the remote-access VPN. Remote-access VPN provides benefits which allow a mobile user can access data anywhere over the user can be associated with a remote-access VPN server. Remote-access VPN built using Layer 2 Tunneling Protocol (L2TP) as the implementation of the VPN and RADIUS for user management system that includes the authentication-authorization-accounting (AAA).

With the incorporation of technology Remote access VPN with L2TP and Radius authentication-authorization covering-accounting (AAA). Expected to make the VPN becomes easier implementation and provides a level of data security better.

Keywords : *Virtual Private Networks, Remote Access, Layer 2 Tunneling Protokol, Authentication-Authorization, Accounting (AAA), enkripsi*