ABSTRACT

A computer network consist of a number of computer which have similarity and

difference. Wired LAN Network mostly used to conduct data comunication bus

because it more secure and have a good performance. But, now many people

complaint about Wired LAN security. This make the ISP provider service to monitor

their user. Based on it, Wired LAN Network must have efficient and great security

system.

RADIUS is a security system based on AAA (Authentication, Authorization,

Accounting) which has fused inside of it. With that mechanism, the demand of the

administrative support will be decreased and increase the network security. RADIUS

work on FreeBSD-6.3 STABLE operating system which have minimum human

interface compared the other operating system. So the possibility for server to be

hacked is minimum. With using RADIUS security system which have high level

security system because not easy breaked through and also have monitoring and

management system make administrator cannot monitor and control the user or

bandwith in LAN network.

This system is built with main system that is VPN service which work above

IPv4 network have a number of service inside it, there are database server, RADIUS

server, PPTP server, and proxy server. All of service have been installed in a computer

so the system is more efficient.

Keywords: AAA, IPv4, security, RADIUS, VPN