

ABSTRACT

As a security expert in an ISP must have a task for network security and monitoring devices such as switches and routers are not small amounts of traffic and secure information in the ISP. For monitoring network security is so great of course can not be done by an administrator privileges just so necessary settings (permissions) specific to the co-admin at every router and switch. Giving privileges are less efficient when implemented, in very large networks. So it takes a centralized setting privileges to facilitate the performance of administrators in monitoring the condition of the network and information security.

TACACS + and RADIUS manangani be a solution to the problem of network security access is happening at this time ini. Dalam thesis will analyze the advantages and disadvantages of these two protocols in terms of both compatibility and security services data services that are vital to the way of doing simulations on GNS 3 and menambahkn service at each router IPSec to protect traffic information in each router

At the end of this time the task is generated that the delay is needed to make the process of authentication with AAA ± 1 second longer than without using AAA authentication and IPSec additions not overload the network because it requires only $\pm 1\%$ of the capacity provided.

Keywords: Technology evolves, The complexity of the service, TACACS, RADIUS, IPSec