An Analytical and Experimental Study of AAA Model with Special Reference to RADIUS and TACACS+

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Abstract

A significant growth is observed in network technology during last few decades. Several kinds of information services are delivered using the networks. Additionally, both legitimate and malicious users are accessing the services. Moreover, the network is always vulnerable to different kinds of security issues. Therefore the domain of security is an essential aspect of the study, research, and development. For that purpose, the efforts are made to design effective security protocols. During effective security protocol design, the authentication, authorization, and accounting of network access are a key concern. The ability of network security design is well known as AAA model. This presented work investigates about the two popular network security protocols namely RADIUS and TACACS+ to deploy AAA model. Evaluation and comparison of both the security techniques and simulation methodologies are involved in the presented work.

References


**Index Terms**

Computer Science  
Networks

**Keywords**

AAA Model, TACACS+, RADIUS, Comparative study, performance analysis, implementation.