

DESIGNING AND MAKING authentication server DISTRIBUTED SYSTEM BASED ON XML

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ABSTRACT

Not completely secure computer networks from a variety of attacks and weaknesses of the system that can be exploited so that it can cause overall system failure. On the other hand, handling the security aspects of the application is still done in conjunction with the development of business processes so that the resulting system will not become effective if the application has many users with a variety of diverse access rights. In addition, efforts to integrate various kinds of applications become more complex because each application has its own method with limitations on certain platforms. Based on this background developed an authentication server. How the authentication server is the first time by listing all the attributes. In addition, registration applications must also include a list of users and access rights. Client application then sends the user data and applications to a server identity authentication each time a user login request. Before data is sent, the data is encrypted and then converted to XML format. Arriving on the server, the data is then translated into text form and then decrypted into plaintext. These data are used as parameters to be validated by first passing the port knocking. If the validation is successful port knocking, then the special session will be created for that user. Then the session will be returned to the application to be processed further. Almost the same process also applies if the user requesting access to a procedure. The difference lies in the validation process which involves the examination of the validity of the session, permissions, parameters and requirements can be met. While in the logoff process, limit switches so that the user session is terminated can no longer perform the access. The existence of authentication server integration proved to facilitate a variety of applications under a single security system for all XML-formatted data is transferred. In addition, the ease of integration flexibility is also evidenced by the authentication server for coordinating the various applications and users that use it. On the other hand, authentication server also serves to improve the security system shown in the form of resistance to the plaintext data reading, the man in the middle attacks and unauthorized access.

Keywords: Authentication Server, XML, port knocking, encryption.