An Adaptive Distributed Authorization System Based On RBAC

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Abstract

Extranet is a concept to support business and their cooperative partners for sharing authorization information, applications, and operations. That establishes secure and trusted environment using both Internet and WWW related technologies. However, there exist some problems, such as; the business has distributed resources in the different node servers and need to determine users' access permission during the transaction. We proposed a dynamic distributed authorization system to resolve the problems in the paper. The node server can dynamically request authorization data from central management server, and then it can check user's permission independently. Therefore, the central management sever can gain better load balancing and improve overall system performance. For achieving flexible permission control, we also adopt role-based access control (RBAC) mechanism in our proposed architecture to provide a more efficient but simple management. Moreover, our proposed architecture has the scalability and flexibility properties.

Keyword：Extranet, Authorization, Distributed authorization, Role-based access control (RBAC)