Abstract

Access Control is the process or mechanism for giving the authority to access the specific resources, applications and system. Access control defines a set of conditions or criteria to access the system and its resources. There are three main access control models: first is Mandatory access control model, second is Discretionary access control model and third is Role based access control models. In Mandatory access control models, the user’s roles are allotted according to the system administrator wishes. In this, end users do not have authority to set any access control policies on files therefore it is the most restrictive access control method. It is useful in a highly secured environment. For example military, research centers. In Discretionary access control model, the end users have complete authority to assign any rights to objects. But giving all control to the user over the files is too dangerous because if an...
attacker got the control over the account then the attacker will have complete authority on the access. In Role based model creates different authorities permissions by assigning access rights to specific roles or jobs within the company then role based access control assigns these roles to users. It is effectively implemented in an organization because files and resources are assigned according to the roles. Assigning roles to the user was done by the system administrator. In this, Roles are assigned affected to each resource. For example, roles can decide a resource to be used at certain times of the day.

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Index Terms

Computer Science
Security

Keywords

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Role based access

(DAC)
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