Abstract

The recent rapid explosion of web based applications and information system have further increased the risk exposure of databases and thus, data protection is today more crucial than ever. It is more important to protect data not only from external intruders but also internal intruders. In this paper, different access control mechanisms and its models discussed to achieving the confidentiality, integrity and availability goals of the database security in the organization. The models are useful in classification systems to prevent theft of information and effect of data at higher classification levels.

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Index Terms

Computer Science
Database Management

Systems

Keywords
Access Control Mechanism
Bell-LaPadula security model
Biba security model
Clark Wilson model

Role Based Access Control model.