Abstract

A database is a collection of data of different types, while DBMS is a set of specifications that tells how data is to be stored in a database and how data should be accessed by the components of the database. The data and the metadata when exposed to the outside world may endanger the security of the DBMS. Therefore precautions should be taken that the data should be available to the right user at any point of time. In this study the architecture of the database is understood and tried to identify the vulnerabilities and threats related to them. Also it is noticed that if the architecture of the database is secured it would provide secure data management system. Different security methods implemented for different scenarios are discussed in this paper. With the help of these tools, a proposal for the security at the application level (View level) of the database architecture is suggested.
Countermeasures to Database Security: A Survey


Index Terms

Computer Science

Security
Keywords
Database  DBMS  architecture of DBMS  vulnerabilities  threats