Abstract

A database-management system (DBMS) is a collection of correlated data and a set of programs to access correlated data. The collection of data, usually referred to as the database, contains information able to an enterprise. And hence the concept of security lies within. As the database contains all information relevant to particular enterprise, so it's very important to be in safe side to prevent all threats related to data. Various Security Mechanisms have been developed to prevent ill-legal and unauthorized access of data (enterprise related, web or network related etc.) by unauthorized users and hackers. Database security is a growing concern of the market these days as there has been found an unexpected growth in ill-legal access of data. This paper is the brief analysis of all the threats and attacks against database security and integrity. Database security is the mechanisms that secure the database from data tampering, deliberate threats, unauthorized users and hackers. Security refers to protecting data from unauthorized users and integrity refers to protecting the data against authorized users. Both concepts must be taken into consideration for making a complete check on overall security of database.
- Jiping Xiong, Lifeng Xuan, Jian Zhao and Tao Huang, "Web and Database Security", Unpublished

Index Terms

Computer Science

Database Management

Keywords

Access Control  Attacks  Threats  Discretionary Control  Encryption and Decryption