Abstract

Today, the internet has become a 4th necessity for human after air, water and food. The internet is widely used for business. Now-a-days, billions of transactions are done online with the use of different applications. In today's world threats to security is becoming more and more sensitive issue, lots of attacks have taken place in recent years. It is observed that there are many leakages in the security of web applications. Five attacks out of top ten attacks are done using Structured Query Language (SQL). Database attacks mostly affect on Data Theft, Data manipulation and by Pass user authentication. Our study focus is to prevent sensitive data exposure. The authors have proposed dynamic database security policy to prevent sensitive data exposure using Oracle database.

References

- Lianzhong Liu and Jingfen Gai, &quot;A New Lightweight Database Encryption Scheme Transparent to Applications": 6th IEEE International Conference on Industrial Informatics, 13-16 July 2008, pp. 135-140.
- Wen-Chung Kuo, Dong-Jin Jiang, Yu-Chih Huang, &quot;A Reversible Data Hiding Scheme Based on Block Division": Congress on Image and Signal Processing, Vol. 1, 27-30 May 2008, pp. 365-369
Sensitive Data Exposure Prevention using Dynamic Database Security Policy

- DBMS_RLS :docs. oracle. com: visited on 25th July 2014

Index Terms

Computer Science  Security

Keywords

SQL   SQL Injection   Database theft   Sensitive Data exposure   Security policy