Abstract

E-commerce applications are becoming popular day by day as they are working like a virtual shop. Today’s distributed e-commerce applications typically rely upon various technologies in their realization, including the web, scripting languages, server-side processing and an underlying database. The combination of these technologies creates a system that requires attention to the security issues of each component and the system as a whole. Hence security related to authentication, authorization and transaction database need to be managed carefully.

References

- Stuart Feldman, "The Changing Face of E-Commerce: Extending the Boundaries of the Possible", IEEE INTERNET COMPUTING, MAY • JUNE 2000
- Timothy E. Lindquist, "Security Considerations for Distributed Web-Based e-commerce Applications in Java", IEEE/2002
- Donal O. Mahony, Michael Peirce Hitesh Tewari, "Electronic Payment Systems for
E-Commerce (Artech House computer security series-Boston 2001)
- Sung-Ming Yen and Chi-Sung Laih, "Improved Digital Signature Algorithm", IEEE TRANSACTIONS ON COMPUTERS, VOL. 44, NO. 5, MAY 1995
- L. Harn, "Enhancing the security of ElGamal's signature Scheme", IEEE Vol. 142, No. 5, September 1995
- Simson L. Garfinkel, "Public key cryptography", June-1996
- Ingemar J. Cox, Senior Member, IEEE, and Jean-Paul M. G. Linnartz, "Some General Methods for Tampering with Watermarks", IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, VOL. 16, NO. 4, MAY 1998
- Kjell Orsborn, "E-COMMERCE and SECURITY", Spring 2008
- PATRICIA BEATTY, IAN REAY, SCOTT DICK, and JAMES MILLER, "Consumer Trust in E-Commerce Web Sites: A Meta-Study", ACM Computing Surveys, Vol. 43, No. 3, Article 14, Publication date: April 2011
- Dieter Gollmann, "E-commerce security", COMPUTING AND CONTROL ENGINEERING JOURNAL, JUNE 2000
- Radu Sion, Mikhail Atallah, Fellow, IEEE, and Sunil Prabhakar, "Rights Protection for Relational Data", IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, VOL. 16, NO. 12, DECEMBER 2004
- Yingjiu Li, Member, IEEE, Vipin Swarup, and Sushil Jajodia, Senior Member, IEEE, "Fingerprinting Relational Databases:Schemes and Specialties", IEEE TRANSACTIONS ON DEPENDABLE AND SECURE COMPUTING, VOL. 2, NO. 1, JANUARY-MARCH 2005
- Shiu-Jeng Wang, Jia-Hung Huang, "Concerns about Hash Cracking Aftereffect on Authentication Procedures in Applications of Cyberspace", IEEE A&E SYSTEMS MAGAZINE, JANUARY 20073
- Xiangrong Xiao Xingming Sun Minggang Chen, Second-LSB-Dependent Robust Watermarking for Relational Database, 0-7695-2876-7/07 $25. 00 © 2007 IEEE DOI 10. 1109/IAS. 2007. 25
- Haiting Cui, Xinchun Cui, Mailing Meng, "A Public Key Cryptography Based Algorithm for Watermarking Relational Databases", 978-0-7695-3278-3/08 $25. 00 © 2008 IEEE DOI 10. 1109/IIH-MSP. 2008. 194

Index Terms

Computer Science
Security
Keywords
Encryption  Watermarking  Steganography  Salt  Hashing