Abstract

Testing and measuring the security of software system architectures is a difficult task. An attempt is made in this paper to analyze the issues of architecture security of object-oriented software's using common security concepts to evaluate the security of a system under design. Object oriented systems are based on various architectures like COM, DCOM, CORBA, MVC and Broker. In object oriented technology the basic system component is an object. Individual system component is posing it own risk in the system. Security policies and the associated risk in these software architectures can be calculated for the individual component. Overall risk can be calculated based on the context and risk factors in the architecture. Small risk factors get accumulated together and form a major risk in the systems and can damage the systems.

References

- D. Garlan and M. Shaw, “An introduction to software architecture”, Advances in Software
- Dinesh Kumar Saini “Sense the Future” Campus Volume 1- Issue 11, Page No14-17, February 2011.
- Dinesh Kumar Saini, Nebras N. Hasoon, Feras N. Hasoon and Mustafa Hasan. “Review of Query Processing in Distributed Systems”, Proceedings of the INFORMATICS 2011 IADIS,
International Association for Development of the Information Society, July 20-26, 2011, Rome Italy. Pp 117-123


Jabar H.Yousif, Dinesh Kumar Saini and Hassan S. Uraibi, “Artificial Intelligence in E-Learning-Pedagogical and Cognitive Aspects” The 2011 International Conference of Computational Intelligence and Intelligent Systems (ICCIIS-201), World Congress in Engineering, July 6-9th London UK

Nitin B Raut, Jabar H. Yousif, Sanad Al Maskari, and Dinesh Kumar Saini “Cloud for Pollution Control and Global Warming” The 2011 International Conference of Information Engineering (ICIE-2011), World Congress in Engineering, July 6-9th London UK


Security Concerns of Object Oriented Software Architectures

- Dinesh Kumar Saini and Hemraj Saini “Identification and characterization of software testing process for object oriented systems”, National Conference on Mathematical Analysis and its Applications in Real -World Problems, Berhampur University, September

Index Terms

Computer Science
Software Engineering

Keywords
Security  COM  DCOM  CORBA  Test Strategy  risk  SDLC