
e-Books: (c2012-2013)

Cao, Zhenfu. New directions of modern cryptography. CRC Press, Taylor & Francis Group, 2013.

Das, Sajal K. Handbook on securing cyber-physical critical infrastructure foundation and challenges. Morgan Kaufmann, c2012.

Doherty, Eamon P. Digital forensics for handheld devices. CRC Press, 2013.

Jacobson, Douglas. Computer security literacy staying safe in a digital world. CRC Press, 2013.

Patil, Harsh Kupwade. Security for wireless sensor networks using identity-based cryptography. CRC Press, 2013.

Unpublished Materials:

Blanco, Mae Sincere S. MOVE : Mobile One-time Password Version E. 2009. LG 993.5 2009 C65 B53

Ho Hai Van. An improvement on logical key hierarchy algorithm for multicast and group security. 2005. LG 995 2005 C65 H6.

Ontua, Marife G. Evaluation of the unified modeling language for security requirements analysis. 2005. LG 995 2005 C65 O58.

Solamo, Ma. Rowena C. Defining the security policy and architectural design of managing documents using RCBS model. 2006. LG 995 2006 C65 S65

Online Subscriptions:

Science Direct —the world's largest electronic collection of science, technology and medicine full text and bibliographic information.

SIAM/LOCUS — Contains the electronic full text for every SIAM (Society for Industrial and Applied Mathematics) journal article published from the journal's inception through 1996, totaling to approximately 14,000 articles, about 285,000 pages, and more than 250,000 reference links.

Springerlink – one of the world's leading interactive databases for high-quality STM journals, book series, books, reference works and the Online Archives Collection. SpringerLink is a powerful central access point for researchers and scientists

Disclaimer:

This pathfinder contains suggested materials on Computer Security that are available at the College of Engineering Library II. However, some references were not included.

We welcome suggestions for new pathfinder topics.

University of the Philippines Diliman
COLLEGE OF ENGINEERING
LIBRARY II

UP Alumni Engineers Centennial Hall
(Engineering Library & Computer Science Bldg.)
Velasquez St., Diliman, Quezon City

Phone: (632) 981-8500 local 3251 to 3252
Fax: (632) 434-8638
Email: library@englib.upd.edu.ph
Website: <http://www.englib.upd.edu.ph>



University of the Philippines Diliman COLLEGE OF ENGINEERING LIBRARY II



Image URL: <http://www.rootbsd.net/blog/wpcontent/uploads/2008/07/computer-security.jpg>

COMPUTER SECURITY

PATHFINDER



COMPUTER SECURITY

- refers to techniques for ensuring that data stored in a computer cannot be read or compromised by any individuals without authorization. Most security measures involve data encryption and passwords. Data encryption is the translation of data into a form that is unintelligible without a deciphering mechanism. A password is a secret word or phrase that gives a user access to a particular program or system.

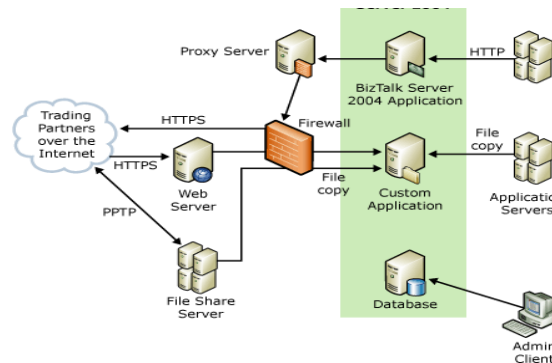
Source: http://www.webopedia.com/TERM/W/World_Wide_Web.html

SECURITY ARCHITECTURE

- design artifacts that describe how the security controls (security countermeasures) are positioned, and how they relate to the overall information technology architecture.
- Security controls serve the purpose to maintain the system's quality attributes, among them are:
 - Confidentiality** - ensuring that information is accessible only to those authorized to have access" and is one of the cornerstones of information security.
 - Accountability** - is the acknowledgment and assumption of responsibility for actions, products, decisions, and policies.
 - Integrity** - judges the quality of a system in terms of its ability to achieve its own goals.
 - Assurance** - processes designed to ensure the quality of a product or service.
 - Accountability** - the degree to which a system, subsystem, or equipment is operable and in a committable state at the start of a mission.

Books: (c2010-2012)

- Anderson, Brian. Seven deadliest USB attacks. Elsevier/Syngress, c2010. QA 76.9 A25 A52 2010
- Basta, Alfred. Database security. Course Technology, Cengage Learning, c2012. QA 76.9 D314 B37 2012
- Carr, Houston H. The management of network security : technology, design, and management control. Prentice Hall, c2010. TK 5105.59 C377 2010.
- Carvey, Harlan A. Windows forensic analysis toolkit : advanced analysis techniques for Windows 7. Syngress, c2012. HV 8079 C65 C37 2012
- Ciampa, Mark D. Security awareness: applying practical security in your world. Thomson Course Technology, c2007. QA 76.9 A25 C4 2010
- Das, Sajal K. Handbook on securing cyber-physical critical infrastructure : foundation and challenges. Morgan Kaufmann, c2012. TK 5105.59 D37 2012
- Easttom, Chuck. Computer security fundamentals. Pearson, c2012. QA 76.9 A25 E27 2012
- Internet fraud casebook : the World Wide Web of deceit. John Wiley & Sons, c2010. HV 6773 I5842010
- Kleidermacher, David. Embedded systems security : practical methods for safe and secure software and systems development. Elsevier, 2012. QA 76.76 D47 K53 2012
- Merkow, Mark S. Secure and resilient software development. CRC Press, c2010. QA 76.76 D47 M47 2010
- Moser, Stefan M. A student's guide to coding and information theory. Cambridge University Press, c2012. Q 360 M67 2012
- Shema, Mike. Seven deadliest web application attacks. Elsevier/Syngress, c2010. TK 5105.59 S54 2010
- Stallings, William. Network security essentials : applications and standards. Pearson, c2011. TK 5105.59 S73 2011
- Sullivan, Bryan. Web application security : a beginner's guide. McGraw-Hill, c2012. TK 5105.59 S85 2012
- Timm, Carl. Seven deadliest social network attacks. Syngress/Elsevier, c2010. TK 5105.88817 T56 2010
- Visual cryptography and secret image sharing. CRC Press, c2012. TA 1637 V57 2012
- Whitman, Michael E. Principles of information security. Course Technology, Cengage Learning, c2012. TK 5105.59 W55 2012
- Wilhelm, Thomas. Professional penetration testing : creating and operating a formal hacking lab. Syngress, c2010. TK 5105.59 W554 2010



Sample Security Architecture of a Company

Image URL: [http://i.msdn.microsoft.com/ms942191.Local_-308657009_otg_bts2004_architecture\(en-us,MSDN.10\).gif](http://i.msdn.microsoft.com/ms942191.Local_-308657009_otg_bts2004_architecture(en-us,MSDN.10).gif)