



2019 Fall Term (1) Capstone Experience in Digital Forensics Cybersecurity I CSCI 400 01[16012] (John Jay College)

Complementary readings

Here students will find a list of complementary (more in-depth) readings for each assigned chapter.

Chapter 1 Overview

Anderson, J. Computer Security Threat Monitoring and Surveillance. Fort Washington, PA: James P. Anderson Co., April 1980.

Chapter 2 Cryptographic Tools

Schneier, B. "Why Cryptography is Harder Than It Looks." Information Security Bulletin, 1997.

Chapter 3 User Authentication

Wagner, D., and Goldberg, I. "Proofs of Security for the UNIX Password Hashing Algorithm." Proceedings, ASIACRYPT '00, 2000.

Chapter 4 Access Control

Sandhu, R. "Lattice-Based Access Control Models." Computer, November 1993.

Barkley, J. "Comparing Simple Role-Based Access Control Models and Access Control Lists." Proceedings of the Second ACM Workshop on Role-Based Access Control, 1997.

Bell, D. "Looking Back at the Bell-Lapadula Model." Proceedings, 21st Annual IEEE Computer Security Applications Conference, 2005.

Mackenzie, D., and Pottinger, G. "Mathematics, Technology, and Trust: Formal Verification, Computer Security, and the U.S. Military." IEEE Annals of the History of Computing, Vol. 19, No. 3, 1997.

Chapter 5 Database Security

Griffiths, P., and Wade, B. "An Authorization Mechanism for a Relational Database System." ACM Transactions on Database Systems, September 1976.

Chapter 6 Malware

Levine, J.; Grizzard, J.; and Owen, H. "A Methodology to Detect and Characterize Kernel Level Rootkit Exploits Involving Redirection of the System Call Table." Proceedings of the Second IEEE International Information Assurance Workshop, 2004.

Chapter 8 Intrusion Detection

Anagostakis, K., et al. "Detecting Targeted Attacks Using Shadow Honeypots." 14th USENIX Security Symposium, 2005.

Allen, J., Christie, A., Fithen, W., McHugh, J. and Pickel, J. State of the practice of intrusion detection technologies. Technical Report CMU/SEI-99-TR-028. Carnegie Mellon University, Software Engineering Institute, Pittsburgh, PA, 2000.

Chapter 9 Firewalls

Ioannidis, S. "Implementing a Distributed Firewall." ACM CCS '00, 2000.

Guster, D. "A Firewall Configuration Strategy for the Protection of Computer Networked Labs in a College Setting." Journal of Computing Sciences in Colleges, October 2001.

Chapter 10 Buffer Overflow

Levy, E., "Smashing The Stack For Fun And Profit." Phrack Magazine, file 14, Issue 49, November 1996.

Chapter 11 Other Software Security Issues

Miller, B.; Cooksey, G.; and Moore, F. "An Empirical Study of the Robustness of MacOS Applications Using Random Testing." First International Workshop on Random Testing. Portland, Maine, ACM, 2006.

Chapter 12 OS Security

Jiang, X., and Solihin, Y. "Architectural Framework for Supporting Operating System Survivability" IEEE International Symposium on High-Performance Computer Architecture, 2011.

Chapter 20 Symmetric Encryption

Blaze, M., et al. "Minimal Key Lengths for Symmetric Ciphers to Provide Adequate Commercial Security." RSA Document, 1996.
RFC 1750 Randomness Recommendations for Security. December 1994.

Chapter 21 Public-Key Cryptography

Asymmetric Encryption: Evolution and Enhancements Cryptobytes Volume 2, No. 1 - Spring 1996.

Chapter 22 Internet Security

Neuman, B. "Security, Payment, and Privacy for Network Commerce." IEEE Journal on Selected Areas in Communications, October 1995.

Chapter 23 Internet Authentication

Yu, T., et al. "The Perils of Unauthenticated Encryption: Kerberos Version 4." Proceedings of the Network and Distributed System Security Symposium. The Internet Society, February 2004.

Chapter 24 Wireless Network Security

Welch, D., and Lathrop, S. "Wireless Security Threat Taxonomy." Proceedings of the 2003 IEEE Workshop on Information Security. West Point, NY June 2003.

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