Principles of Computer Security Lab Manual, Fourth Edition (Osborne Reserved)

By Vincent Nestler, Keith Harrison, Matthew Hirsch, Wm. Arthur Conklin

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Practice the Computer Security Skills You Need to Succeed!

- 40+ lab exercises challenge you to solve problems based on realistic case studies
- Step-by-step scenarios require you to think critically
- Lab analysis tests measure your understanding of lab results
- Key term quizzes help build your vocabulary
- Labs can be performed on a Windows, Linux, or Mac platform with the use of virtual machines

In this Lab Manual, you'll practice

- Configuring workstation network connectivity
- Analyzing network communication
- Establishing secure network application communication using TCP/IP protocols
- Penetration testing with Nmap, metasploit, password cracking, Cobalt Strike, and other tools
- Defending against network application attacks, including SQL injection, web browser exploits, and email attacks
- Combatting Trojans, man-in-the-middle attacks, and steganography
- Hardening a host computer, using antivirus applications, and configuring firewalls
- Securing network communications with encryption, secure shell (SSH), secure copy (SCP), certificates, SSL, and IPsec
- Preparing for and detecting attacks
- Backing up and restoring data
- Handling digital forensics and incident response

Instructor resources available:

- This lab manual supplements the textbook *Principles of Computer Security, Fourth Edition*, which is available separately
- Virtual machine files
- Solutions to the labs are not included in the book and are only available to adopting instructors

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Editorial Review

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James Bauer:

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