



# Cybersecurity: Managing Systems, Conducting Testing, and Investigating Intrusions

By Thomas J. Mowbray

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**Cybersecurity: Managing Systems, Conducting Testing, and Investigating Intrusions** By Thomas J. Mowbray

**A must-have, hands-on guide for working in the cybersecurity profession**

Cybersecurity involves preventative methods to protect information from attacks. It requires a thorough understanding of potential threats, such as viruses and other malicious code, as well as system vulnerability and security architecture. This essential book addresses cybersecurity strategies that include identity management, risk management, and incident management, and also serves as a detailed guide for anyone looking to enter the security profession. Doubling as the text for a cybersecurity course, it is also a useful reference for cybersecurity testing, IT test/development, and system/network administration.

- Covers everything from basic network administration security skills through advanced command line scripting, tool customization, and log analysis skills
- Dives deeper into such intense topics as wireshark/tcpdump filtering, Google hacks, Windows/Linux scripting, Metasploit command line, and tool customizations
- Delves into network administration for Windows, Linux, and VMware
- Examines penetration testing, cyber investigations, firewall configuration, and security tool customization
- Shares techniques for cybersecurity testing, planning, and reporting

*Cybersecurity: Managing Systems, Conducting Testing, and Investigating Intrusions* is a comprehensive and authoritative look at the critical topic of cybersecurity from start to finish.

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### Editorial Review

From the Back Cover

**Your organization is probably under attack right now.**

What are you doing about it?

Cyber crime is perhaps the fastest-growing crime category, increasing by as much as 300 percent each year. Your organization is undoubtedly under attack at this very moment.

This book looks at security systemically. Beginning with the use of antipatterns and moving through improvements in security architecture, customizing tools, effective pen testing, and network monitoring, it demonstrates how to build security into your systems. Whether you're dealing with a small business or a major enterprise, you'll learn how to create and maintain cybersecurity that works.

- Examine a range of common antipatterns and their refactored solutions
- Ensure protection of Linux as well as Windows environments
- Learn specific tools and protocols for securing healthcare IT
- Use the exercises at the end of each chapter to improve your understanding
- Educate your staff with a cybersecurity course built on this guide
- Learn how to create, use, and migrate virtual machines for testing
- Understand how cloud computing affects enterprise security
- Customize BackTrack Linux test discs with advanced tools
- Dive deeper into intense topics such as advanced Wireshark/tcpdump filtering, Windows/Linux/Python network programming, and invoking automated Metasploit attacks from operating system command lines and scripts

Visit [www.wiley.com/go/cybersecurity](http://www.wiley.com/go/cybersecurity) for a custom course syllabus, PowerPoint slides, and test bank, as well as downloadable custom scripts for Advanced Log Analysis

### About the Author

**Thomas J. Mowbray, PhD**, holds gold-level certification from the SANS Institute in network penetration and ethical hacking. Dr. Mowbray, who has earned a doctorate in computer science, has co-authored five other professional books, including Wiley's bestseller *Antipatterns: Refactoring Software, Architectures, and Projects in Crisis*. After founding the Northrup Grumman Cyber Warfare Community of Practice, Dr. Mowbray joined the Certification and Accreditation Team (an elite cybersecurity test group) as their network administrator, security tools customizer, and hands-on penetration tester. At the time of writing, Dr. Mowbray is the Chief Enterprise Architect of The Ohio State University.

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**Roland Collins:**

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