

# Ethical Hacking Techniques and Countermeasures for Cybercrime Prevention

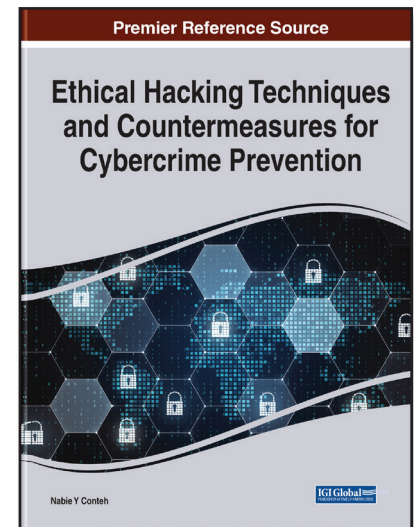
Part of the Advances in Information Security, Privacy, and Ethics Book Series

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## Description:

As personal data continues to be shared and used in all aspects of society, the protection of this information has become paramount. While cybersecurity should protect individuals from cyber-threats, it also should be eliminating any and all vulnerabilities. The use of hacking to prevent cybercrime and contribute new countermeasures towards protecting computers, servers, networks, web applications, mobile devices, and stored data from black hat attackers who have malicious intent, as well as to stop against unauthorized access instead of using hacking in the traditional sense to launch attacks on these devices, can contribute emerging and advanced solutions against cybercrime.

**Ethical Hacking Techniques and Countermeasures for Cybercrime Prevention** is a comprehensive text that discusses and defines ethical hacking, including the skills and concept of ethical hacking, and studies the countermeasures to prevent and stop cybercrimes, cyberterrorism, cybertheft, identity theft, and computer-related crimes. It broadens the understanding of cybersecurity by providing the necessary tools and skills to combat cybercrime. Some specific topics include top cyber investigation trends, data security of consumer devices, phases of hacking attacks, and steganography for secure image transmission. This book is relevant for ethical hackers, cybersecurity analysts, computer forensic experts, government officials, practitioners, researchers, academicians, and students interested in the latest techniques for preventing and combatting cybercrime.



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## Topics Covered:

Access Control  
Authentication  
Cryptography  
Cyber Attacks  
Cyber Investigations

Cyber Security and Privacy  
Cybercrime  
Data Security  
Ethical Hacking  
Legal and Ethical Issues

Phases of Attacks  
Steganography  
Threats and Defense Measures

**Subject:** Security and Forensics

**Classification:** Edited Reference

**Readership Level:** Advanced-Academic Level  
(Research Recommended)

**Research Suitable for:** Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

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