



Network Attacks and Exploitation: A Framework

By Matthew Monte

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Incorporate offense and defense for a more effective network security strategy

Network Attacks and Exploitation provides a clear, comprehensive roadmap for developing a complete offensive and defensive strategy to engage in or thwart hacking and computer espionage. Written by an expert in both government and corporate vulnerability and security operations, this guide helps you understand the principles of the space and look beyond the individual technologies of the moment to develop durable comprehensive solutions. Numerous real-world examples illustrate the offensive and defensive concepts at work, including Conficker, Stuxnet, the Target compromise, and more. You will find clear guidance toward strategy, tools, and implementation, with practical advice on blocking systematic computer espionage and the theft of information from governments, companies, and individuals.

Assaults and manipulation of computer networks are rampant around the world. One of the biggest challenges is fitting the ever-increasing amount of information into a whole plan or framework to develop the right strategies to thwart these attacks. This book clears the confusion by outlining the approaches that work, the tools that work, and resources needed to apply them.

- Understand the fundamental concepts of computer network exploitation
- Learn the nature and tools of systematic attacks
- Examine offensive strategy and how attackers will seek to maintain their advantage
- Understand defensive strategy, and how current approaches fail to change the strategic balance

Governments, criminals, companies, and individuals are all operating in a world without boundaries, where the laws, customs, and norms previously established over centuries are only beginning to take shape. Meanwhile computer espionage continues to grow in both frequency and impact. This book will help you mount a robust offense or a strategically sound defense against attacks and exploitation. For a clear roadmap to better network security, *Network Attacks and Exploitation* is your complete and practical guide.

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Network Attacks and Exploitation: A Framework By Matthew Monte Bibliography

- Sales Rank: #618101 in Books
- Brand: imusti
- Published on: 2015-08-03
- Original language: English
- Number of items: 1
- Dimensions: 9.20" h x .40" w x 7.35" l, 1.47 pounds
- Binding: Paperback
- 216 pages

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Editorial Review

From the Back Cover

Enhance network security with both offensive and defensive strategies

It's not enough just to defend your network against attack. For truly effective security, you need both defensive and offensive strategies in a unified framework. This book provides a clear, comprehensive roadmap for developing a complete offensive and defensive strategy to engage in or thwart hacking and computer espionage.

Written by an expert in both government and corporate vulnerability and security operations, this guide takes you beyond the individual technologies to help you develop durable, far-reaching solutions. More than introducing tools and how to use them, it provides an essential understanding of the inherent properties of computer operations and the principles of network attack and exploitation. Supported by real-world examples, this book outlines the approaches that work, the tools that work, and the resources needed to apply them. You will:

- Understand the fundamental concepts of computer exploitation
- Learn the nature of systematic attacks and the tools that are used
- Examine offensive strategies and how hackers will attempt to maintain their advantage
- Gain a better understanding of defensive strategy
- See how current approaches fail to change the strategic balance
- Be able to mount a robust offense or a strategically sound defense against attacks and exploitation

Where network security is concerned, we operate in a world where laws and customs are still evolving. In this book, you will find clear guidance toward strategy, tools, and implementation, with practical advice on blocking systematic computer espionage and the theft of information.

About the Author

MATTHEW MONTE is a security expert with 15 years experience developing computer security tools and strategies for corporations and the U.S. government. His career includes technical and leadership positions in industry and the U.S. intelligence community. He holds a Master of Engineering in Computer Science degree from Cornell University.

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