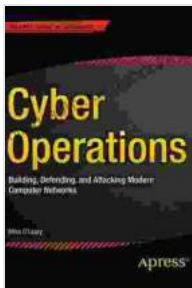# Building Defending And Attacking Modern Computer Networks

In the ever-evolving digital landscape, the security of computer networks is paramount. With the increasing sophistication of cyber threats, it is essential for IT professionals, security practitioners, and ethical hackers to possess a comprehensive understanding of modern network security principles and techniques.

Cyber Operations: Building, Defending, and Attacking Modern Computer Networks by Mike O'Leary

★★★★☆ 4.1 out of 5

Language	: English
File size	: 10691 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 774 pages

FREE **DOWNLOAD E-BOOK** 📄

This definitive guide provides an in-depth exploration of the art and science of building, defending, and attacking modern computer networks. Through a blend of theoretical knowledge, practical examples, and ethical considerations, you will gain a deep understanding of:

* Network architecture and design principles * Network defense strategies and best practices * Técnicas de ataque de redes éticas * Técnicas de reconocimiento y explotación de redes * Análisis forense de redes

Building Secure Networks

The foundation of network security lies in building resilient and robust networks. This chapter delves into:

* Network architecture concepts and topologies * Firewall configuration and management * Intrusion detection and prevention systems * Virtual private networks (VPNs) * Network segmentation and access control

By mastering these principles, you will gain the ability to design and implement secure network architectures that can withstand a wide range of cyber threats.

Defending Against Cyberattacks

As networks become more complex, so do the threats they face. This chapter focuses on the strategies and tactics used to defend networks against malicious actors. You will learn about:

* Vulnerability assessment and management * Security monitoring and incident response * Malware analysis and containment * Denial-of-service (DoS) and distributed denial-of-service (DDoS) attacks * Social engineering and phishing attacks

Through hands-on exercises and real-world case studies, you will develop the skills necessary to identify, mitigate, and respond to cyberattacks effectively.

Ethical Network Attack Techniques

Understanding how attackers operate is crucial for developing effective defense strategies. This chapter introduces ethical network attack

techniques used by penetration testers and security researchers. You will learn about:

* Reconnaissance techniques (e.g., port scanning, DNS enumeration) * Vulnerability exploitation techniques (e.g., buffer overflows, SQL injections) * Post-exploitation techniques (e.g., privilege escalation, data exfiltration)

By studying these techniques in an ethical and controlled environment, you will gain valuable insights into the mindset and tactics of attackers, enabling you to better protect your networks.

Network Reconnaissance and Exploitation

The ability to gather information and exploit vulnerabilities is essential for both attackers and defenders. This chapter provides a comprehensive overview of:

* Network reconnaissance tools and techniques * Vulnerability assessment tools and techniques * Exploitation frameworks and scripting languages * Ethical considerations and responsible disclosure

Through practical exercises and hands-on demonstrations, you will learn to use these tools and techniques to gather valuable information about networks and identify exploitable vulnerabilities.

Network Analysis and Forensics

In the aftermath of a cyberattack, it is crucial to analyze network activity and identify the root cause. This chapter covers:

* Network analysis tools and techniques * Network forensics principles and methodologies * Incident investigation and evidence collection * Reporting and documentation

By mastering these techniques, you will gain the ability to conduct thorough investigations and provide comprehensive reports on cyberattacks, supporting legal and organizational decision-making.

Building Defending And Attacking Modern Computer Networks is the definitive guide to modern network security. Whether you are an IT professional, security practitioner, ethical hacker, or aspiring cybersecurity expert, this book will provide you with the knowledge and skills necessary to navigate the complex and challenging world of network security.

Embrace the opportunity to enhance your understanding, develop your skills, and become a leader in the field of cybersecurity. Free Download your copy today and embark on a journey to master the art of building, defending, and attacking modern computer networks!
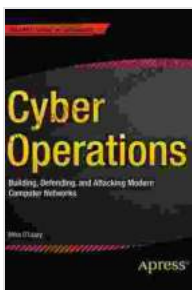
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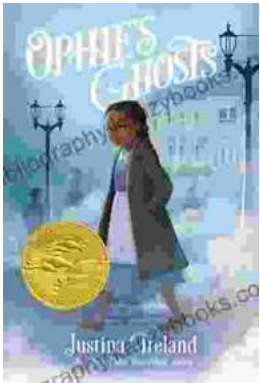
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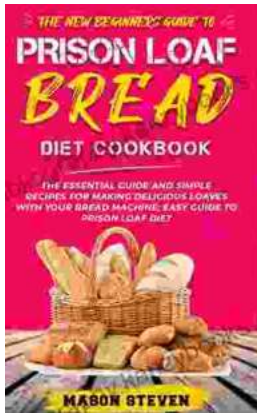|	
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