



# Cyber Operations: Building, Defending, and Attacking Modern Computer Networks

*Mike O'Leary*

Download now

[Click here](#) if your download doesn't start automatically

# Cyber Operations: Building, Defending, and Attacking Modern Computer Networks

*Mike O'Leary*

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

Learn to set up, defend, and attack computer networks. This book focuses on networks and real attacks, offers extensive coverage of offensive and defensive techniques, and is supported by a rich collection of exercises and resources.

You'll learn how to configure your network from the ground up, starting by setting up your virtual test environment with basics like DNS and active directory, through common network services, and ending with complex web applications involving web servers and backend databases.

Key defensive techniques are integrated throughout the exposition. You will develop situational awareness of your network and will build a complete defensive infrastructure—including log servers, network firewalls, web application firewalls, and intrusion detection systems.

Of course, you cannot truly understand how to defend a network if you do not know how to attack it, so you will attack your test systems in a variety of ways beginning with elementary attacks against browsers through privilege escalation to a domain administrator, or attacks against simple network servers through the compromise of a defended e-commerce site.

The author, who has coached his university's cyber defense team three times to the finals of the National Collegiate Cyber Defense Competition, provides a practical, hands-on approach to cyber security.

### **What you'll learn**

- How to securely set up a complete network, from its infrastructure through web applications
- How to integrate defensive technologies such as firewalls and intrusion detection systems into your network
- How to attack your network with tools like Kali Linux, Metasploit, and Burp Suite
- How to gain situational awareness on your network to detect and prevent such attacks

### **Who this book is for**

This book is for beginning and intermediate professionals in cyber security who want to learn more about building, defending, and attacking computer networks. It is also suitable for use as a textbook and supplementary text for hands-on courses in cyber operations at the undergraduate and graduate level.

### **Table of Contents**

Chapter 1. System Setup

Chapter 2. Basic Offense

Chapter 3. Operational Awareness

Chapter 4. DNS & BIND

Chapter 5. Enumerating the Network

Chapter 6. Active Directory

Chapter 7. Attacking the Domain

Chapter 8. Logging

Chapter 9. Network Services

Chapter 10. Malware

Chapter 11. Apache and ModSecurity

Chapter 12. IIS and ModSecurity

Chapter 13. Web Attacks

Chapter 14. Firewalls

Chapter 15. MySQL

Chapter 16. Snort

Chapter 17. PHP

Chapter 18. Web Applications

 [Download Cyber Operations: Building, Defending, and Attacking ...pdf](#)

 [Read Online Cyber Operations: Building, Defending, and Attacking ...pdf](#)

## **Download and Read Free Online Cyber Operations: Building, Defending, and Attacking Modern Computer Networks Mike O'Leary**

---

### **From reader reviews:**

#### **Gary Kruse:**

The ability that you get from Cyber Operations: Building, Defending, and Attacking Modern Computer Networks is the more deep you excavating the information that hide in the words the more you get interested in reading it. It doesn't mean that this book is hard to understand but Cyber Operations: Building, Defending, and Attacking Modern Computer Networks giving you thrill feeling of reading. The copy writer conveys their point in particular way that can be understood simply by anyone who read it because the author of this guide is well-known enough. This kind of book also makes your personal vocabulary increase well. It is therefore easy to understand then can go with you, both in printed or e-book style are available. We suggest you for having this specific Cyber Operations: Building, Defending, and Attacking Modern Computer Networks instantly.

#### **Bobby Tremblay:**

This Cyber Operations: Building, Defending, and Attacking Modern Computer Networks is great guide for you because the content which can be full of information for you who always deal with world and possess to make decision every minute. This book reveal it information accurately using great coordinate word or we can claim no rambling sentences in it. So if you are read that hurriedly you can have whole details in it. Doesn't mean it only provides straight forward sentences but challenging core information with splendid delivering sentences. Having Cyber Operations: Building, Defending, and Attacking Modern Computer Networks in your hand like obtaining the world in your arm, facts in it is not ridiculous 1. We can say that no reserve that offer you world inside ten or fifteen small right but this publication already do that. So , this is certainly good reading book. Hey Mr. and Mrs. busy do you still doubt that will?

#### **Lori McDonald:**

The book untitled Cyber Operations: Building, Defending, and Attacking Modern Computer Networks contain a lot of information on that. The writer explains the woman idea with easy way. The language is very easy to understand all the people, so do definitely not worry, you can easy to read that. The book was published by famous author. The author provides you in the new era of literary works. It is easy to read this book because you can read on your smart phone, or program, so you can read the book throughout anywhere and anytime. If you want to buy the e-book, you can wide open their official web-site along with order it. Have a nice read.

#### **Cassandra Rosas:**

Publication is one of source of knowledge. We can add our expertise from it. Not only for students but additionally native or citizen need book to know the update information of year to year. As we know those guides have many advantages. Beside most of us add our knowledge, could also bring us to around the world. By book Cyber Operations: Building, Defending, and Attacking Modern Computer Networks we can

take more advantage. Don't you to be creative people? To become creative person must prefer to read a book. Merely choose the best book that ideal with your aim. Don't become doubt to change your life by this book Cyber Operations: Building, Defending, and Attacking Modern Computer Networks. You can more appealing than now.

**Download and Read Online Cyber Operations: Building, Defending, and Attacking Modern Computer Networks Mike O'Leary**  
**#N61MCQJ84IU**

## **Read Cyber Operations: Building, Defending, and Attacking Modern Computer Networks by Mike O'Leary for online ebook**

Cyber Operations: Building, Defending, and Attacking Modern Computer Networks by Mike O'Leary Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Cyber Operations: Building, Defending, and Attacking Modern Computer Networks by Mike O'Leary books to read online.

### **Online Cyber Operations: Building, Defending, and Attacking Modern Computer Networks by Mike O'Leary ebook PDF download**

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

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

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