



Cyber Operations

Building, Defending, and Attacking
Modern Computer Networks

—
Second Edition
—

Mike O’Leary

Apress®

Cyber Operations Building Defending And Attacking Modern Computer Networks

Albert A Gayle



Cyber Operations Building Defending And Attacking Modern Computer Networks:

Cyber Operations Mike O'Leary, 2015 Cyber Operations walks you through all the processes 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 and culminating with a case study of 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

Cyber Operations Mike O'Leary, 2015-10-23 Cyber Operations walks you through all the processes 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 and culminating with a case study of 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

Network Security Through Data Analysis Michael Collins, 2017-09-08 Traditional intrusion detection and logfile analysis are no longer enough to protect today s complex networks In the updated second edition of this practical guide security researcher Michael Collins shows InfoSec personnel the latest techniques and tools for collecting and analyzing network traffic datasets You ll understand how your network is used and what actions are necessary to harden and defend the systems within it In three sections this book examines the process of collecting and organizing data various tools for analysis and several different analytic scenarios and techniques New chapters focus on active monitoring and traffic manipulation insider threat detection data mining regression and machine learning and other topics You ll learn

how to Use sensors to collect network service host and active domain data Work with the SiLK toolset Python and other tools and techniques for manipulating data you collect Detect unusual phenomena through exploratory data analysis EDA using visualization and mathematical techniques Analyze text data traffic behavior and communications mistakes Identify significant structures in your network with graph analysis Examine insider threat data and acquire threat intelligence Map your network and identify significant hosts within it Work with operations to develop defenses and analysis techniques

Fifth International Conference on Computing and Network Communications Sabu M. Thampi, Patrick Siarry, Mohammed Atiquzzaman, Ljiljana Trajkovic, Jaime Lloret Mauri, 2025-02-05 This book constitutes thoroughly refereed post conference proceedings of the 5th International Conference on Computing and Network Communications CoCoNet 23 The revised papers presented are carefully reviewed and selected from several initial submissions The scope of the Symposium includes Network on Chip Architectures and Applications Future Internet Architecture and Protocols Intelligent Networked Systems IoT and smart cities Communications Systems Integration and Modelling and Wireless and Mobile Communications The book is directed to the researchers and scientists engaged in various fields of network communications

Applied Cryptography and Network Security Christina Pöpper, Lejla Batina, 2024-02-29 The 3 volume set LNCS 14583 14585 constitutes the proceedings of the 22nd International Conference on Applied Cryptography and Network Security ACNS 2024 which took place in Abu Dhabi UAE in March 2024 The 54 full papers included in these proceedings were carefully reviewed and selected from 230 submissions They have been organized in topical sections as follows Part I Cryptographic protocols encrypted data signatures Part II Post quantum lattices wireless and networks privacy and homomorphic encryption symmetric crypto Part III Blockchain smart infrastructures systems and software attacks users and usability

China's Quest for Military Supremacy Joel Wuthnow, Phillip C. Saunders, 2024-12-20 China's military has entered a new era It has acquired modern weapons to rival the world's finest undergone a massive restructuring under Xi Jinping and been on the frontlines of territorial disputes with Japan India Vietnam and the Philippines It is readying forces to be able to seize Taiwan sometime in the next decade It aims to be a world class military on par with the United States China's Quest for Military Supremacy provides a broad and accessible exploration of Chinese military power including relations between the Chinese Communist Party and its army the strategic worldview of Chinese leaders military strategy and resourcing conventional and nuclear modernization military diplomacy and coercion preparations for war and the People's Liberation Army's emerging global role It also identifies the challenges facing China's military and shows how its focus on supremacy in the region means that it is not yet prepared to fight with the same lethality beyond Asia Different futures are possible and the book concludes with a preview of what it might take for a truly world class Chinese military to take the global stage

Building, Defending, and Attacking Modern Computer Networks Jack Ralston, 2017-04-11 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 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 and culminating with a case study of the compromise of a defended e commerce site 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 **The Times Index**, 2011 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement **Offensive Cyber Operations**

Daniel Moore, 2022-08-01 Cyber warfare is often discussed but rarely truly seen When does an intrusion turn into an attack and what does that entail How do nations fold offensive cyber operations into their strategies Operations against networks mostly occur to collect intelligence in peacetime Understanding the lifecycle and complexity of targeting adversary networks is key to doing so effectively in conflict Rather than discussing the spectre of cyber war Daniel Moore seeks to observe the spectrum of cyber operations By piecing together operational case studies military strategy and technical analysis he shows that modern cyber operations are neither altogether unique nor entirely novel Offensive cyber operations are the latest incarnation of intangible warfare conflict waged through non physical means such as the information space or the electromagnetic spectrum Not all offensive operations are created equal Some are slow paced clandestine infiltrations requiring discipline and patience for a big payoff others are short lived attacks meant to create temporary tactical disruptions This book first seeks to understand the possibilities before turning to look at some of the most prolific actors the United States Russia China and Iran Each have their own unique take advantages and challenges when attacking networks for effect **Cyber Warfare** Paul J. Springer, 2015-02-24 This timely handbook traces the development of cyber capabilities from their roots in information warfare and cryptology to their potential military application in combat Cyber warfare is gaining prominence as a serious tactic in military conflicts throughout the world And as the most network dependent nation on earth the United States is the most vulnerable Military expert and author Paul J Springer examines the many facets of cyber combat from the threats of information exposure that American civilians encounter on a daily basis to the concern of keeping up with the capabilities of China and Russia to the inherent dangers in ignoring cyber threats This essential reference the only of its kind to include an overview of other cyber warfare literature emphasizes the importance of cyber operations in modern conflicts detailing the efforts that have been made by government agencies to create networks that are secure Noted experts in the field weigh in on the problems of attribution during a cyber attack the detection of cyber intrusions and the possible solutions for preventing data breaches The book features profiles of theorists commanders and inventors as well as organizations dedicated to cyber attacks including government and military operations industrial cyber security companies and academic centers **Cyberwarfare: Information Operations in a Connected World** Mike

Chapple, David Seidl, 2021-10-11 Cyberwarfare Information Operations in a Connected World puts students on the real world battlefield of cyberspace. It reviews the role that cyberwarfare plays in modern military operations, operations in which it has become almost impossible to separate cyberwarfare from traditional warfare. **The Cybersecurity Dilemma** Ben Buchanan, 2017-02-01 Why do nations break into one another's most important computer networks? There is an obvious answer: to steal valuable information or to attack. But this isn't the full story. This book draws on often overlooked documents leaked by Edward Snowden, real world case studies of cyber operations, and policymaker perspectives to show that intruding into other countries' networks has enormous defensive value as well. Two nations, neither of which seeks to harm the other but neither of which trusts the other, will often find it prudent to launch intrusions. This general problem, in which a nation's means of securing itself threatens the security of others and risks escalating tension, is a bedrock concept in international relations and is called the security dilemma. This book shows not only that the security dilemma applies to cyber operations but also that the particular characteristics of the digital domain mean that the effects are deeply pronounced. The cybersecurity dilemma is both a vital concern of modern statecraft and a means of accessibly understanding the essential components of cyber operations. **Cyber Warfare** Sushil Jajodia, Paulo Shakarian, V.S. Subrahmanian, Vipin Swarup, Cliff Wang, 2015-04-09 This book features a wide spectrum of the latest computer science research relating to cyber warfare, including military and policy dimensions. It is the first book to explore the scientific foundation of cyber warfare and features research from the areas of artificial intelligence, game theory, programming languages, graph theory, and more. The high level approach and emphasis on scientific rigor provides insights on ways to improve cyber warfare defense worldwide. **Cyber Warfare: Building the Scientific Foundation** targets researchers and practitioners working in cyber security, especially government employees or contractors. Advanced level students in computer science and electrical engineering with an interest in security will also find this content valuable as a secondary textbook or reference. **Introduction to Cyber-Warfare** Paulo Shakarian, Jana Shakarian, Andrew Ruef, 2013-05-16 Introduction to Cyber Warfare: A Multidisciplinary Approach, written by experts on the front lines, gives you an insider's look into the world of cyber warfare through the use of recent case studies. The book examines the issues related to cyber warfare not only from a computer science perspective but from military, sociological, and scientific perspectives as well. You'll learn how cyber warfare has been performed in the past as well as why various actors rely on this new means of warfare and what steps can be taken to prevent it. Provides a multidisciplinary approach to cyber warfare, analyzing the information technology, military policy, social, and scientific issues that are in play. Presents detailed case studies of cyber attack, including inter-state cyber conflict, Russia-Estonia cyber attack as an element of an information operations strategy, Israel-Hezbollah and cyber attack as a tool against dissidents within a state, Russia-Iran. Explores cyber attack conducted by large, powerful, non-state hacking organizations such as Anonymous and LulzSec. Covers cyber attacks directed against infrastructure such as water treatment plants and power grids with a detailed

account of Stuxent *Encyclopedia of Cyber Warfare* Paul J. Springer, 2025-02-06 This volume offers a concise overview of cyber warfare providing historical context and an examination of its rapid development into a potent technological weapon of the 21st century Ready reference entries profile key individuals organizations technologies and cyberattack events Readers will also discover a curated selection of relevant primary source documents with insightful analyses A chronology cross references at the end of each entry and a guide to related topics help readers discover and navigate content and form a more robust conceptual framework of the subject Entry specific further readings and an end of volume bibliography point readers toward additional resources and serve as a gateway to further learning This second edition features more than 30 new entries including coverage of recent high profile events such as cyberattacks during the COVID 19 pandemic and the Russo Ukrainian War Other new entries examine the development and potential cybersecurity impacts of artificial intelligence cryptocurrency ransomware and other emerging technologies The documents section includes 7 new primary sources offering perspectives from the U S government European Union People s Republic of China and others Updates to entries the chronology further readings and the end of volume bibliography capture the significant developments of this ever evolving topic This new volume continues the expert scholarship of the first edition of *Encyclopedia of Cyber Warfare* which was named a Top Ten Reference by Booklist in 2018 **The Basics of Cyber Warfare** Jason Andress, Steve

Winterfeld, 2012-12-28 *The Basics of Cyber Warfare* provides readers with fundamental knowledge of cyber war in both theoretical and practical aspects This book explores the principles of cyber warfare including military and cyber doctrine social engineering and offensive and defensive tools tactics and procedures including computer network exploitation CNE attack CNA and defense CND Readers learn the basics of how to defend against espionage hacking insider threats state sponsored attacks and non state actors such as organized criminals and terrorists Finally the book looks ahead to emerging aspects of cyber security technology and trends including cloud computing mobile devices biometrics and nanotechnology *The Basics of Cyber Warfare* gives readers a concise overview of these threats and outlines the ethics laws and consequences of cyber warfare It is a valuable resource for policy makers CEOs and CIOs penetration testers security administrators and students and instructors in information security Provides a sound understanding of the tools and tactics used in cyber warfare Describes both offensive and defensive tactics from an insider s point of view Presents doctrine and hands on techniques to understand as cyber warfare evolves with technology Cyber Operations and the Use of Force in

International Law Marco Roscini, 2016-06-16 The internet has changed the rules of many industries and war is no exception But can a computer virus be classed as an act of war Does a Denial of Service attack count as an armed attack And does a state have a right to self defence when cyber attacked With the range and sophistication of cyber attacks against states showing a dramatic increase in recent times this book investigates the traditional concepts of use of force armed attack and armed conflict and asks whether existing laws created for analogue technologies can be applied to new digital developments

The book provides a comprehensive analysis of primary documents and surrounding literature to investigate whether and how existing rules on the use of force in international law apply to a relatively new phenomenon such as cyberspace operations. It assesses the rules of *jus ad bellum* and *jus in bello* whether based on treaty or custom and analyses why each rule applies or does not apply to cyber operations. Those rules which can be seen to apply are then discussed in the context of each specific type of cyber operation. The book addresses the key questions of whether a cyber operation amounts to the use of force and if so whether the victim state can exercise its right of self defence whether cyber operations trigger the application of international humanitarian law when they are not accompanied by traditional hostilities what rules must be followed in the conduct of cyber hostilities how neutrality is affected by cyber operations whether those conducting cyber operations are combatants civilians or civilians taking direct part in hostilities. The book is essential reading for everyone wanting a better understanding of how international law regulates cyber combat. *Cyber Warfare* James A. Green, 2015-05-22

This book is a multi disciplinary analysis of cyber warfare featuring contributions by leading experts from a mixture of academic and professional backgrounds. Cyber warfare meaning interstate cyber aggression is an increasingly important emerging phenomenon in international relations with state orchestrated or apparently state orchestrated computer network attacks occurring in Estonia 2007 Georgia 2008 and Iran 2010. This method of waging warfare given its potential to for example make planes fall from the sky or cause nuclear power plants to melt down has the capacity to be as devastating as any conventional means of conducting armed conflict. Every state in the world now has a cyber defence programme and over 120 states also have a cyber attack programme. While the amount of literature on cyber warfare is growing within disciplines our understanding of the subject has been limited by a lack of cross disciplinary engagement. In response this book drawn from the fields of computer science military strategy international law political science and military ethics provides a critical overview of cyber warfare for those approaching the topic from whatever angle. Chapters consider the emergence of the phenomena of cyber warfare in international affairs what cyber attacks are from a technological standpoint the extent to which cyber attacks can be attributed to state actors the strategic value and danger posed by cyber conflict the legal regulation of cyber attacks both as international uses of force and as part of an on going armed conflict and the ethical implications of cyber warfare. This book will be of great interest to students of cyber warfare cyber security military ethics international law security studies and IR in general. *Cybersecurity and Cyberwar* P.W. Singer, Allan Friedman, 2013-12-04

A generation ago cyberspace was just a term from science fiction used to describe the nascent network of computers linking a few university labs. Today our entire modern way of life from communication to commerce to conflict fundamentally depends on the Internet. And the cybersecurity issues that result challenge literally everyone: politicians wrestling with everything from cybercrime to online freedom generals protecting the nation from new forms of attack while planning new cyberwars business executives defending firms from once unimaginable threats and looking to make money off

of them lawyers and ethicists building new frameworks for right and wrong Most of all cybersecurity issues affect us as individuals We face new questions in everything from our rights and responsibilities as citizens of both the online and real world to simply how to protect ourselves and our families from a new type of danger And yet there is perhaps no issue that has grown so important so quickly and that touches so many that remains so poorly understood In *Cybersecurity and CyberWar What Everyone Needs to Know* New York Times best selling author P W Singer and noted cyber expert Allan Friedman team up to provide the kind of easy to read yet deeply informative resource book that has been missing on this crucial issue of 21st century life Written in a lively accessible style filled with engaging stories and illustrative anecdotes the book is structured around the key question areas of cyberspace and its security how it all works why it all matters and what can we do Along the way they take readers on a tour of the important and entertaining issues and characters of cybersecurity from the Anonymous hacker group and the Stuxnet computer virus to the new cyber units of the Chinese and U S militaries *Cybersecurity and CyberWar What Everyone Needs to Know* is the definitive account on the subject for us all which comes not a moment too soon What Everyone Needs to Know is a registered trademark of Oxford University Press Rethinking Cyber Warfare R. David Edelman, 2024 *Rethinking Cyber Warfare* provides a fresh understanding of the role that digital disruption plays in contemporary international security and proposes a new approach to more effectively restrain and manage cyberattacks

Enjoying the Song of Phrase: An Mental Symphony within **Cyber Operations Building Defending And Attacking Modern Computer Networks**

In some sort of used by displays and the ceaseless chatter of instant transmission, the melodic splendor and psychological symphony produced by the written word usually disappear in to the back ground, eclipsed by the constant sound and disturbances that permeate our lives. But, located within the pages of **Cyber Operations Building Defending And Attacking Modern Computer Networks** a stunning fictional prize brimming with organic feelings, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, this charming masterpiece conducts visitors on a psychological journey, well unraveling the concealed songs and profound impact resonating within each carefully constructed phrase. Within the depths of the poignant analysis, we can investigate the book is central harmonies, analyze its enthralling publishing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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