Download Hands On Information Security Laboratory Manual

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Management of Information Security
Practical Threat Intelligence and Data-Driven Threat Hunting
Computer and Information Security Handbook
Management of Information Security + Hands-on Information Security Lab Manual
Computer Security -- ESORICS 2013
Hands-On Security in DevOps
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How Cybersecurity Really Works
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Principles of Information Security
Hands-On Information Security Lab Manual
Computer Security
Getting an Information Security Job For Dummies
Principles of Information Security
Network Security For Dummies
The Basics of Information Security
Practical Malware Analysis
Roadmap to Information Security: For IT and Infosec Managers
Principles of Information Security
Computer Security
Hands on Hacking
Cybersecurity Career Master Plan

FULLER LLOYD

Applied Information Security Springer
This book explores fundamental principles for securing IT systems and illustrates them with hands-on experiments that may be carried out by the reader using accompanying software. The experiments highlight key information security problems that arise in modern operating systems, networks, and web applications. The authors explain how to identify and exploit such problems and they show different countermeasures and their implementation. The reader thus gains a detailed understanding of how vulnerabilities arise and practical experience tackling them. After presenting the basics of security principles, virtual environments, and network services, the authors explain the core security principles of authentication and access control, logging and log analysis, web application security, certificates and public-key cryptography, and risk management. The book concludes with appendices on the design of related courses, report templates, and the basics of Linux as needed for the assignments. The authors have successfully taught IT security to students and professionals using the content of this book and the laboratory setting it describes. The book can be used in undergraduate or graduate laboratory courses, complementing more theoretically oriented courses, and it can also be used for self-study by IT professionals who want hands-on experience in applied information security. The authors' supporting software is freely available online and the text is supported throughout with exercises.
Management of Information Security Packt Publishing Ltd
Build smart cybersecurity systems with the power of machine learning and deep learning to protect your corporate assets Key FeaturesIdentify and predict security threats using artificial intelligenceDevelop intelligent systems that can detect unusual and suspicious patterns and attacksLearn how to test the effectiveness of your AI cybersecurity algorithms and toolsBook Description Today's organizations spend billions of dollars globally on cybersecurity. Artificial intelligence has emerged as a great solution for building smarter and safer security systems that allow you to predict and detect suspicious network activity, such as phishing or unauthorized intrusions. This cybersecurity book presents and demonstrates popular and successful AI approaches and models that you can adapt to detect potential attacks and protect your corporate systems. You'll learn about the role of machine learning and neural networks, as well as deep learning in cybersecurity, and you'll also learn how you can infuse AI capabilities into building smart defensive mechanisms. As you advance, you'll be able to apply these strategies across a variety of applications, including spam filters, network intrusion detection, botnet detection, and secure authentication. By the end of this book, you'll be ready to develop intelligent systems that can detect unusual and suspicious patterns and attacks, thereby developing strong network security defenses

using AI. What you will learnDetect email threats such as spamming and phishing using AICategorize APT, zero-days, and polymorphic malware samplesOvercome antivirus limits in threat detectionPredict network intrusions and detect anomalies with machine learningVerify the strength of biometric authentication procedures with deep learningEvaluate cybersecurity strategies and learn how you can improve themWho this book is for If you're a cybersecurity professional or ethical hacker who wants to build intelligent systems using the power of machine learning and AI, you'll find this book useful. Familiarity with cybersecurity concepts and knowledge of Python programming is essential to get the most out of this book.

Practical Threat Intelligence and Data-Driven Threat Hunting

Syngress

Cybersecurity for Beginners is an engaging introduction to the field of cybersecurity. You'll learn how attackers operate, as well as how to defend yourself and organizations against online attacks. You don't need a technical background to understand core cybersecurity concepts and their practical applications – all you need is this book. It covers all the important stuff and leaves out the jargon, giving you a broad view of how specific attacks work and common methods used by online adversaries, as well as the controls and strategies you can use to defend against them. Each chapter tackles a new topic from the ground up, such as malware or social engineering, with easy-to-grasp explanations of the technology at play and relatable, real-world examples. Hands-on exercises then turn the conceptual knowledge you've gained into cyber-savvy skills that will make you safer at work and at home. You'll explore various types of authentication (and how they can be broken), ways to prevent infections from different types of malware, like worms and viruses, and methods for protecting your cloud accounts from adversaries who target web apps. You'll also learn how to: • Use command-line tools to see information about your computer and network • Analyze email headers to detect phishing attempts • Open potentially malicious documents in a sandbox to safely see what they do • Set up your operating system accounts, firewalls, and router to protect your network • Perform a SQL injection attack by targeting an intentionally vulnerable website • Encrypt and hash your files In addition, you'll get an inside look at the roles and responsibilities of security professionals, see how an attack works from a cybercriminal's viewpoint, and get first-hand experience implementing sophisticated cybersecurity measures on your own devices.

Computer and Information Security Handbook

Cengage Learning

Implement information security effectively as per your organization's needs. About This Book Learn to build your own information security framework, the best fit for your organization Build on the concepts of threat modeling, incidence response, and security analysis Practical use cases and best practices for information security Who This Book Is For This book is for security analysts and professionals who deal with security mechanisms in an

organization. If you are looking for an end to end guide on information security and risk analysis with no prior knowledge of this domain, then this book is for you. What You Will Learn Develop your own information security framework Build your incident response mechanism Discover cloud security considerations Get to know the system development life cycle Get your security operation center up and running Know the various security testing types Balance security as per your business needs Implement information security best practices In Detail Having an information security mechanism is one of the most crucial factors for any organization. Important assets of organization demand a proper risk management and threat model for security, and so information security concepts are gaining a lot of traction. This book starts with the concept of information security and shows you why it's important. It then moves on to modules such as threat modeling, risk management, and mitigation. It also covers the concepts of incident response systems, information rights management, and more. Moving on, it guides you to build your own information security framework as the best fit for your organization. Toward the end, you'll discover some best practices that can be implemented to make your security framework strong. By the end of this book, you will be well-versed with all the factors involved in information security, which will help you build a security framework that is a perfect fit your organization's requirements. Style and approach This book takes a practical approach, walking you through information security fundamentals, along with information security best practices.

Management of Information Security + Hands-on Information Security Lab Manual

Springer Science & Business Media

Malware analysis is big business, and attacks can cost a company dearly. When malware breaches your defenses, you need to act quickly to cure current infections and prevent future ones from occurring. For those who want to stay ahead of the latest malware, Practical Malware Analysis will teach you the tools and techniques used by professional analysts. With this book as your guide, you'll be able to safely analyze, debug, and disassemble any malicious software that comes your way. You'll learn how to: –Set up a safe virtual environment to analyze malware –Quickly extract network signatures and host-based indicators –Use key analysis tools like IDA Pro, OllyDbg, and WinDbg –Overcome malware tricks like obfuscation, anti-disassembly, anti-debugging, and anti-virtual machine techniques –Use your newfound knowledge of Windows internals for malware analysis –Develop a methodology for unpacking malware and get practical experience with five of the most popular packers –Analyze special cases of malware with shellcode, C++, and 64-bit code Hands-on labs throughout the book challenge you to practice and synthesize your skills as you dissect real malware samples, and pages of detailed dissections offer an over-the-shoulder look at how the pros do it. You'll learn how to crack open

malware to see how it really works, determine what damage it has done, thoroughly clean your network, and ensure that the malware never comes back. Malware analysis is a cat-and-mouse game with rules that are constantly changing, so make sure you have the fundamentals. Whether you're tasked with securing one network or a thousand networks, or you're making a living as a malware analyst, you'll find what you need to succeed in Practical Malware Analysis.

Computer Security -- ESORICS 2013 Packt Publishing Ltd

Introduction to Cyber Security is a handy guide to the world of Cyber Security. It can serve as a reference manual for those working in the Cyber Security domain. The book takes a dip in history to talk about the very first computer virus, and at the same time, discusses in detail about the latest cyber threats. There are around four chapters covering all the Cyber Security technologies used across the globe. The book throws light on the Cyber Security landscape and the methods used by cybercriminals. Starting with the history of the Internet, the book takes the reader through an interesting account of the Internet in India, the birth of computer viruses, and how the Internet evolved over time. The book also provides an insight into the various techniques used by Cyber Security professionals to defend against the common cyberattacks launched by cybercriminals. The readers will also get to know about the latest technologies that can be used by individuals to safeguard themselves from any cyberattacks, such as phishing scams, social engineering, online frauds, etc. The book will be helpful for those planning to make a career in the Cyber Security domain. It can serve as a guide to prepare for the interviews, exams and campus work.

Hands-On Security in DevOps Cengage Learning

Gain basic skills in network forensics and learn how to apply them effectively Key FeaturesInvestigate network threats with easePractice forensics tasks such as intrusion detection, network analysis, and scanningLearn forensics investigation at the network levelBook Description Network forensics is a subset of digital forensics that deals with network attacks and their investigation. In the era of network attacks and malware threat, it’s now more important than ever to have skills to investigate network attacks and vulnerabilities. Hands-On Network Forensics starts with the core concepts within network forensics, including coding, networking, forensics tools, and methodologies for forensic investigations. You’ll then explore the tools used for network forensics, followed by understanding how to apply those tools to a PCAP file and write the accompanying report. In addition to this, you will understand how statistical flow analysis, network enumeration, tunneling and encryption, and malware detection can be used to investigate your network. Towards the end of this book, you will discover how network correlation works and how to bring all the information from different types of network devices together. By the end of this book, you will have gained hands-on experience of performing forensics analysis tasks. What you will

learnDiscover and interpret encrypted trafficLearn about various protocolsUnderstand the malware language over wireGain insights into the most widely used malwareCorrelate data collected from attacksDevelop tools and custom scripts for network forensics automationWho this book is for The book targets incident responders, network engineers, analysts, forensic engineers and network administrators who want to extend their knowledge from the surface to the deep levels of understanding the science behind network protocols, critical indicators in an incident and conducting a forensic search over the wire.

Security Risk Management CRC Press
The Psychology of Information Security – Resolving conflicts between security compliance and human behaviour considers information security from the seemingly opposing viewpoints of security professionals and end users to find the balance between security and productivity. It provides recommendations on aligning a security programme with wider organisational objectives, successfully managing change and improving security culture.

Applied Information Security Cengage Learning
Discover the latest trends, developments and technology in information security with Whitman/Mattord's market-leading PRINCIPLES OF INFORMATION SECURITY, 7th Edition. Designed specifically to meet the needs of information systems students like you, this edition's balanced focus addresses all aspects of information security, rather than simply offering a technical control perspective. This overview explores important terms and examines what is needed to manage an effective information security program. A new module details incident response and detection strategies. In addition, current, relevant updates highlight the latest practices in security operations as well as legislative issues, information management toolsets, digital forensics and the most recent policies and guidelines that correspond to federal and international standards. MindTap digital resources offer interactive content to further strength your success as a business decision-maker.

Hands-On Information Security Lab Manual Course Technology
Applied Information Security guides students through the installation and basic operation of IT Security software used in the industry today. This text is a great supplement for IT Security textbooks, offering over 21 chapters worth of hands-on assignments.

Computer Security Literacy Packt Publishing Ltd
Get to grips with cyber threat intelligence and data-driven threat hunting while exploring expert tips and techniques Key Features Set up an environment to centralize all data in an Elasticsearch, Logstash, and Kibana (ELK) server that enables threat hunting Carry out atomic hunts to start the threat hunting process and understand the environment Perform advanced hunting using MITRE ATT&CK Evals emulations and Mordor datasets Book DescriptionThreat hunting (TH) provides cybersecurity analysts and enterprises with the opportunity to proactively

defend themselves by getting ahead of threats before they can cause major damage to their business. This book is not only an introduction for those who don't know much about the cyber threat intelligence (CTI) and TH world, but also a guide for those with more advanced knowledge of other cybersecurity fields who are looking to implement a TH program from scratch. You will start by exploring what threat intelligence is and how it can be used to detect and prevent cyber threats. As you progress, you'll learn how to collect data, along with understanding it by developing data models. The book will also show you how to set up an environment for TH using open source tools. Later, you will focus on how to plan a hunt with practical examples, before going on to explore the MITRE ATT&CK framework. By the end of this book, you'll have the skills you need to be able to carry out effective hunts in your own environment.What you will learn Understand what CTI is, its key concepts, and how it is useful for preventing threats and protecting your organization Explore the different stages of the TH process Model the data collected and understand how to document the findings Simulate threat actor activity in a lab environment Use the information collected to detect breaches and validate the results of your queries Use documentation and strategies to communicate processes to senior management and the wider business Who this book is for If you are looking to start out in the cyber intelligence and threat hunting domains and want to know more about how to implement a threat hunting division with open-source tools, then this cyber threat intelligence book is for you.

Applied Information Security Packt Publishing Ltd

HANDS-ON INFORMATION SECURITY LAB MANUAL, Fourth Edition, helps you hone essential information security skills by applying your knowledge to detailed, realistic exercises using Microsoft Windows 2000, Windows XP, Windows 7, and Linux. This wide-ranging, non-certification-based lab manual includes coverage of scanning, OS vulnerability analysis and resolution, firewalls, security maintenance, forensics, and more. The Fourth Edition includes new introductory labs focused on virtualization techniques and images, giving you valuable experience with some of the most important trends and practices in information security and networking today. All software necessary to complete the labs are available online as a free download. An ideal resource for introductory, technical, and managerial courses or self-study, this versatile manual is a perfect supplement to the PRINCIPLES OF INFORMATION SECURITY, SECURITY FUNDAMENTALS, and MANAGEMENT OF INFORMATION SECURITY books. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Psychology of Information Security Jones & Bartlett Publishers

Develop blockchain application with step-by-step instructions, working example and helpful recommendations Key Features Understanding the blockchain technology from the cybersecurity perspective Developing

cyber security solutions with Ethereum blockchain technology Understanding real-world deployment of blockchain based applications Book Description Blockchain technology is being welcomed as one of the most revolutionary and impactful innovations of today. Blockchain technology was first identified in the world's most popular digital currency, Bitcoin, but has now changed the outlook of several organizations and empowered them to use it even for storage and transfer of value. This book will start by introducing you to the common cyberthreat landscape and common attacks such as malware, phishing, insider threats, and DDoS. The next set of chapters will help you to understand the workings of Blockchain technology, Ethereum and Hyperledger architecture and how they fit into the cybersecurity ecosystem. These chapters will also help you to write your first distributed application on Ethereum Blockchain and the Hyperledger Fabric framework. Later, you will learn about the security triad and its adaptation with Blockchain. The last set of chapters will take you through the core concepts of cybersecurity, such as DDoS protection, PKI-based identity, 2FA, and DNS security. You will learn how Blockchain plays a crucial role in transforming cybersecurity solutions. Toward the end of the book, you will also encounter some real-world deployment examples of Blockchain in security cases, and also understand the short-term challenges and future of cybersecurity with Blockchain. What you will learn Understand the cyberthreat landscape Learn about Ethereum and Hyperledger Blockchain Program Blockchain solutions Build Blockchain-based apps for 2FA, and DDoS protection Develop Blockchain-based PKI solutions and apps for storing DNS entries Challenges and the future of cybersecurity and Blockchain Who this book is for The book is targeted towards security professionals, or any stakeholder dealing with cybersecurity who wants to understand the next-level of securing infrastructure using Blockchain. Basic understanding of Blockchain can be an added advantage.

Applied Information Security Labs Newnes

A fast, hands-on introduction to offensive hacking techniques Hands-On Hacking teaches readers to see through the eyes of their adversary and apply hacking techniques to better understand real-world risks to computer networks and data. Readers will benefit from the author's years of experience in the field hacking into computer networks and ultimately training others in the art of cyber-attacks. This book holds no punches and explains the tools, tactics and procedures used by ethical hackers and criminal crackers alike. We will take you on a journey through a hacker's perspective when focused on the computer infrastructure of a target company, exploring how to access the servers and data. Once the information gathering stage is complete, you'll look for flaws and their known exploits—including tools developed by real-world government financed state-actors. An introduction to the same hacking techniques that malicious hackers will use against an organization Written by infosec experts with proven history of publishing vulnerabilities

and highlighting security flaws Based on the tried and tested material used to train hackers all over the world in the art of breaching networks Covers the fundamental basics of how computer networks are inherently vulnerable to attack, teaching the student how to apply hacking skills to uncover vulnerabilities We cover topics of breaching a company from the external network perimeter, hacking internal enterprise systems and web application vulnerabilities. Delving into the basics of exploitation with real-world practical examples, you won't find any hypothetical academic only attacks here. From start to finish this book will take the student through the steps necessary to breach an organization to improve its security. Written by world-renowned cybersecurity experts and educators, Hands-On Hacking teaches entry-level professionals seeking to learn ethical hacking techniques. If you are looking to understand penetration testing and ethical hacking, this book takes you from basic methods to advanced techniques in a structured learning format.

How Cybersecurity Really Works Packt Publishing Ltd

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Applied Information Security guides readers through the installation and basic operation of IT Security software used in the industry today. This book can be used in executive training programs, or by anyone interested in learning the practical side of IT security.

Hands-On Network Forensics Pearson Higher Ed

ROADMAP TO INFORMATION SECURITY: FOR IT AND INFOSEC MANAGERS provides a solid overview of information security and its relationship to the information needs of an organization. Content is tailored to the unique needs of information systems professionals who find themselves brought in to the intricacies of information security responsibilities. The book is written for a wide variety of audiences looking to step up to emerging security challenges, ranging from students to experienced professionals. This book is designed to guide the information technology manager in dealing with the challenges associated with the security aspects of their role, providing concise guidance on assessing and improving an organization's security. The content helps IT managers to handle an assignment to an information security role in ways that conform to expectations and requirements, while supporting the goals of the manager in building and maintaining a solid information security program. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Hands-On Cybersecurity with Blockchain Packt Publishing Ltd

A comprehensive guide that will give you hands-on experience to study and overcome financial cyber threats Key FeaturesProtect your financial environment with cybersecurity practices and methodologiesIdentify vulnerabilities such as data manipulation and fraudulent transactionsProvide end-

to-end protection within organizationsBook Description Organizations have always been a target of cybercrime. Hands-On Cybersecurity for Finance teaches you how to successfully defend your system against common cyber threats, making sure your financial services are a step ahead in terms of security. The book begins by providing an overall description of cybersecurity, guiding you through some of the most important services and technologies currently at risk from cyber threats. Once you have familiarized yourself with the topic, you will explore specific technologies and threats based on case studies and real-life scenarios. As you progress through the chapters, you will discover vulnerabilities and bugs (including the human risk factor), gaining an expert-level view of the most recent threats. You'll then explore information on how you can achieve data and infrastructure protection. In the concluding chapters, you will cover recent and significant updates to procedures and configurations, accompanied by important details related to cybersecurity research and development in IT-based financial services. By the end of the book, you will have gained a basic understanding of the future of information security and will be able to protect financial services and their related infrastructures. What you will learnUnderstand the cyber threats faced by organizationsDiscover how to identify attackersPerform vulnerability assessment, software testing, and pentestingDefend your financial cyberspace using mitigation techniques and remediation plansImplement encryption and decryptionUnderstand how Artificial Intelligence (AI) affects cybersecurityWho this book is for Hands-On Cybersecurity for Finance is for you if you are a security architect, cyber risk manager, or pentester looking to secure your organization. Basic understanding of cybersecurity tools and practices will help you get the most out of this book.

Hands-On Machine Learning for Cybersecurity Packt Publishing Ltd

HANDS-ON INFORMATION SECURITY LAB MANUAL, Fourth Edition, helps you hone essential information security skills by applying your knowledge to detailed, realistic exercises using Microsoft Windows 2000, Windows XP, Windows 7, and Linux. This wide-ranging, non-certification-based lab manual includes coverage of scanning, OS vulnerability analysis and resolution, firewalls, security maintenance, forensics, and more. The Fourth Edition includes new introductory labs focused on virtualization techniques and images, giving you valuable experience with some of the most important trends and practices in information security and networking today. All software necessary to complete the labs are available online as a free download. An ideal resource for introductory, technical, and managerial courses or self-study, this versatile manual is a perfect supplement to the PRINCIPLES OF INFORMATION SECURITY, SECURITY FUNDAMENTALS, and MANAGEMENT OF INFORMATION SECURITY books. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Information Security

Handbook Apress
Get prepared for your Information Security job search! Do you want to equip yourself with the knowledge necessary to succeed in the Information Security job market? If so, you've come to the right place. Packed with the latest and most effective strategies for landing a lucrative job in this popular and quickly-growing field, Getting an Information Security Job For Dummies provides no-nonsense guidance on everything you need to get ahead of the competition and launch yourself into your dream job as an Information Security (IS) guru. Inside, you'll discover the fascinating history, projected future, and current applications/issues in the IS field. Next, you'll get up to speed on the general educational concepts you'll be exposed to while earning your analyst certification and the technical requirements for obtaining an IS position. Finally, learn how to set yourself up for job hunting success with trusted and supportive guidance on creating a winning resume, gaining attention with your cover letter, following up after an initial interview, and much more. Covers the certifications needed for various jobs in the Information Security field Offers guidance on writing an attention-getting resume Provides access to helpful videos, along with other online bonus materials Offers advice on branding yourself and securing your future in Information Security If you're a student, recent graduate, or professional looking to break into the field of Information Security, this hands-on, friendly guide has you covered.
Hands-On Artificial Intelligence for Cybersecurity Packt Publishing Ltd
Penetration testers simulate cyber attacks to find security weaknesses in networks, operating systems, and applications. Information security experts worldwide use penetration techniques to evaluate enterprise defenses. In Penetration Testing, security expert, researcher, and trainer Georgia Weidman introduces you to the core skills and techniques that every pentester needs. Using a virtual machine–based lab that includes Kali Linux and vulnerable operating systems, you'll run through a series of practical lessons with tools like Wireshark, Nmap, and Burp Suite. As you follow along with the labs and launch attacks, you'll experience the key stages of an actual assessment—including information gathering, finding exploitable vulnerabilities, gaining access to systems, post exploitation, and more. Learn how to: –Crack passwords and wireless network keys with brute-forcing and wordlists –Test web applications for vulnerabilities –Use the Metasploit Framework to launch exploits and write your own Metasploit modules –Automate social-engineering attacks –Bypass antivirus software –Turn access to one machine into total control of the enterprise in the post exploitation phase You'll even explore writing your own exploits. Then it's on to mobile hacking—Weidman's particular area of research—with her tool, the Smartphone Pentest Framework. With its collection of hands-on lessons that cover key tools and strategies, Penetration Testing is the introduction that every aspiring hacker needs.