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Python per hacker. Tecniche offensive black hat *Black Hat Go* **Black Hat Python** *Black Hat Python, 2nd Edition* **The Cat in the Hat. Gray Hat Python** *I Wear the Black Hat* **Python per hacker** Was the Cat in the Hat Black? If I Ran the Zoo *I Wear the Black Hat* **Cyber in the Age of Trump** Violent Python **Black Hat Physical Device Security: Exploiting Hardware and Software Critical Infrastructure Protection in Homeland Security Better Together Roses and Locoweed** Security and Privacy - Silver Linings in the Cloud **Hands on Hacking Military Ethics and Emerging Technologies** Digital Forensics and Cyber Crime **And to Think That I Saw It on Mulberry Street The Second Economy Python for Cybersecurity** *PTFM* **E-Collaboration in Modern Organizations: Initiating and Managing Distributed Projects The Cybersecurity Dilemma** Head First Ruby **Rootkit Arsenal The Basics of Hacking and Penetration Testing** Security Strategy **The Applied Ethics of Emerging Military and Security Technologies White Fragility** The Judge Lied **Managing Risk in Information Systems Eloquent Ruby** *Strategic Cyber Deterrence* The FBI: Houston Collection: Firewall / Double Cross / Deadlock Gray Hat C# *Practical Object-Oriented Design*

This volume looks at current and emerging technologies of war and some of the ethical issues surrounding their use. Although the nature and politics of war never change, the weapons and technologies used in war do change and are always undergoing development. Because of that, the arsenal of weapons for twenty-first century conflict is different from previous centuries. Weapons in today's world include an array of instruments of war that include, robotics, cyber war capabilities, human performance enhancement for warriors, and the proliferation of an entire spectrum of unmanned weapons systems and platforms. Tactical weapons now have the potential of strategic results and have changed the understanding of the battle space creating ethical, legal, and political issues unknown in the pre-9/11 world. What do these technologies mean for things such as contemporary international relations, the just-war tradition, and civil-military relations? Directed at readers in the academic, scientific, military, and public policy communities, this volume offers current thought on ethics and emerging technologies from internationally-recognized scholars addressing the full spectrum of issues in present warfare technology. It includes current and ongoing topics of multi-discipline and international interest, such as ethics, law, international relations, war studies, public policy, science and technology. This book was originally published in various issues and volumes of the Journal of Military Ethics. While forensic analysis has proven to be a valuable investigative tool in the field of computer security, utilizing anti-forensic technology makes it possible to maintain a covert operational foothold for extended periods, even in a high-security environment. Adopting an approach that favors full disclosure, the updated Second Edition of The Rootkit Arsenal presents the most accessible, timely, and complete coverage of forensic countermeasures. This book covers more topics, in greater depth, than any other currently available. In doing so the author forges through the murky back alleys of the Internet, shedding light on material that has traditionally been poorly documented, partially documented, or intentionally undocumented. The range of topics presented includes how to: -Evade post-mortem analysis -Frustrate attempts to reverse engineer your command & control modules -Defeat live incident response -Undermine the process of memory analysis -Modify subsystem internals to feed misinformation to the outside -Entrench your code in fortified regions of execution -Design and implement covert channels -Unearth new avenues of attack These proceedings contain the papers of IFIP/SEC 2010. It was a special honour and privilege to chair the Program Committee and prepare

the proceedings for this conf- ence, which is the 25th in a series of well-established international conferences on security and privacy organized annually by Technical Committee 11 (TC-11) of IFIP. Moreover, in 2010 it is part of the IFIP World Computer Congress 2010 celebrating both the Golden Jubilee of IFIP (founded in 1960) and the Silver Jubilee of the SEC conference in the exciting city of Brisbane, Australia, during September 20–23. The call for papers went out with the challenging motto of “Security & Privacy Silver Linings in the Cloud” building a bridge between the long standing issues of security and privacy and the most recent developments in information and commu- cation technology. It attracted 102 submissions. All of them were evaluated on the basis of their significance, novelty, and technical quality by at least five member of the Program Committee. The Program Committee meeting was held electronically over a period of a week. Of the papers submitted, 25 were selected for presentation at the conference; the acceptance rate was therefore as low as 24. 5% making SEC 2010 a highly competitive forum. One of those 25 submissions could unfortunately not be included in the proceedings, as none of its authors registered in time to present the paper at the conference. Dr. Seuss’s very first book for children! From a mere horse and wagon, young Marco concocts a colorful cast of characters, making Mulberry Street the most interesting location in town. Dr. Seuss’s signature rhythmic text, combined with his unmistakable illustrations, will appeal to fans of all ages, who will cheer when our hero proves that a little imagination can go a very long way. (Who wouldn’t cheer when an elephant-pulled sleigh raced by?) Now over seventy-five years old, this story is as timeless as ever. And Marco’s singular kind of optimism is also evident in McElligot’s Pool. Violent Python shows you how to move from a theoretical understanding of offensive computing concepts to a practical implementation. Instead of relying on another attacker’s tools, this book will teach you to forge your own weapons using the Python programming language. This book demonstrates how to write Python scripts to automate large-scale network attacks, extract metadata, and investigate forensic artifacts. It also shows how to write code to intercept and analyze network traffic using Python, craft and spoof wireless frames to attack wireless and Bluetooth devices, and how to data-mine popular social media websites and evade modern anti-virus. Demonstrates how to write Python scripts to automate large-scale network attacks, extract metadata, and investigate forensic artifacts Write code to intercept and analyze network traffic using Python. Craft and spoof wireless frames to attack wireless and Bluetooth devices Data-mine popular social media websites and evade modern anti-virus When it comes to creating powerful and effective hacking tools, Python is the language of choice for most security analysts. But just how does the magic happen? In Black Hat Python, the latest from Justin Seitz (author of the best-selling Gray Hat Python), you’ll explore the darker side of Python’s capabilities—writing network sniffers, manipulating packets, infecting virtual machines, creating stealthy trojans, and more. You’ll learn how to: –Create a trojan command-and-control using GitHub –Detect sandboxing and automate com-mon malware tasks, like keylogging and screenshotting –Escalate Windows privileges with creative process control –Use offensive memory forensics tricks to retrieve password hashes and inject shellcode into a virtual machine –Extend the popular Burp Suite web-hacking tool –Abuse Windows COM automation to perform a man-in-the-browser attack –Exfiltrate data from a network most sneakily Insider techniques and creative challenges throughout show you how to extend the hacks and how to write your own exploits. When it comes to offensive security, your ability to create powerful tools on the fly is indispensable. Learn how in Black Hat Python. Uses Python 2 Red teams can show flaws that exist in your network before they are compromised by malicious actors and blue teams traditionally assess current security measures and identify security flaws. The teams can provide valuable feedback to each other, but this is often overlooked, enter the purple team. The purple team allows for the integration of red team tactics and blue team security measures. The purple team field manual is a manual for all security professionals and integrates red and blue team methodologies. Addressing the diminished understanding of the value of security on the executive side and a lack of good business processes on the security side, Security Strategy: From Requirements to Reality explains how to select, develop, and deploy the security strategy best suited to your organization. It clarifies the purpose and place of strategy in an information security

program and arms security managers and practitioners with a set of security tactics to support the implementation of strategic planning initiatives, goals, and objectives. The book focuses on security strategy planning and execution to provide a clear and comprehensive look at the structures and tools needed to build a security program that enables and enhances business processes. Divided into two parts, the first part considers business strategy and the second part details specific tactics. The information in both sections will help security practitioners and mangers develop a viable synergy that will allow security to take its place as a valued partner and contributor to the success and profitability of the enterprise. Confusing strategies and tactics all too often keep organizations from properly implementing an effective information protection strategy. This versatile reference presents information in a way that makes it accessible and applicable to organizations of all sizes. Complete with checklists of the physical security requirements that organizations should consider when evaluating or designing facilities, it provides the tools and understanding to enable your company to achieve the operational efficiencies, cost reductions, and brand enhancements that are possible when an effective security strategy is put into action. Python is fast becoming the programming language of choice for hackers, reverse engineers, and software testers because it's easy to write quickly, and it has the low-level support and libraries that make hackers happy. But until now, there has been no real manual on how to use Python for a variety of hacking tasks. You had to dig through forum posts and man pages, endlessly tweaking your own code to get everything working. Not anymore. Gray Hat Python explains the concepts behind hacking tools and techniques like debuggers, trojans, fuzzers, and emulators. But author Justin Seitz goes beyond theory, showing you how to harness existing Python-based security tools—and how to build your own when the pre-built ones won't cut it. You'll learn how to: –Automate tedious reversing and security tasks –Design and program your own debugger –Learn how to fuzz Windows drivers and create powerful fuzzers from scratch –Have fun with code and library injection, soft and hard hooking techniques, and other software trickery –Sniff secure traffic out of an encrypted web browser session –Use PyDBG, Immunity Debugger, Sulley, IDAPython, PyEMU, and more The world's best hackers are using Python to do their handiwork. Shouldn't you? Fully-updated for Python 3, the second edition of this worldwide bestseller (over 100,000 copies sold) explores the stealthier side of programming and brings you all new strategies for your hacking projects. When it comes to creating powerful and effective hacking tools, Python is the language of choice for most security analysts. In this second edition of the bestselling Black Hat Python, you'll explore the darker side of Python's capabilities: everything from writing network sniffers, stealing email credentials, and bruteforcing directories to crafting mutation fuzzers, investigating virtual machines, and creating stealthy trojans. All of the code in this edition has been updated to Python 3.x. You'll also find new coverage of bit shifting, code hygiene, and offensive forensics with the Volatility Framework as well as expanded explanations of the Python libraries ctypes, struct, lxml, and BeautifulSoup, and offensive hacking strategies like splitting bytes, leveraging computer vision libraries, and scraping websites. You'll even learn how to: Create a trojan command-and-control server using GitHub Detect sandboxing and automate common malware tasks like keylogging and screenshotting Extend the Burp Suite web-hacking tool Escalate Windows privileges with creative process control Use offensive memory forensics tricks to retrieve password hashes and find vulnerabilities on a virtual machine Abuse Windows COM automation Exfiltrate data from a network undetected When it comes to offensive security, you need to be able to create powerful tools on the fly. Learn how with Black Hat Python. Revised and updated with the latest data in the field, the Second Edition of Managing Risk in Information Systems provides a comprehensive overview of the SSCP® Risk, Response, and Recovery Domain in addition to providing a thorough overview of risk management and its implications on IT infrastructu In this book, one of America's leading analysts of cybersecurity policy presents an incisive, first-time examination of how President Trump's unique, often baffling governing style has collided with the imperatives of protecting the nation's cybersecurity. Mitchell reveals how qualities that drove success in business and reality TV – impatience and unpredictability, posturing as an unassailable "strong man," and aversion to systematic approaches –

have been antithetical to effective leadership on cybersecurity. Mitchell reveals how the United States is trying to navigate through one of the most treacherous passages in history. Facing this challenge, He argues that the strategic pieces put forth by Trump do not add up to a coherent whole, or a cybersecurity legacy likely to endure past his presidency. Cyber in the Age of Trump will be required reading for both insiders and citizens concerned about American response to the wide variety of cyberthreats at home and abroad. E-Collaboration in Modern Organizations: Initiating and Managing Distributed Projects combines comprehensive research related to e-collaboration in modern organizations, emphasizing topics relevant to those involved in initiating and managing distributed projects. Providing authoritative content to scholars, researchers, and practitioners, this book specifically describes conceptual and theoretical issues that have implications for distributed project management, implications surrounding the use of e-collaborative environments for distributed projects, and emerging issues and debate related directly and indirectly to e-collaboration support for distributed project management. This book offers a systematic analysis of the various existing strategic cyber deterrence options and introduces active cyber defense as a technically capable and legally viable alternative strategy for the deterrence of cyber attacks. It examines the array of malicious actors operating in the domain and their methods of attack and motivations. Black Hat, Inc. is the premier, worldwide provider of security training, consulting, and conferences. In Black Hat Physical Device Security: Exploiting Hardware and Software, the Black Hat experts show readers the types of attacks that can be done to physical devices such as motion detectors, video monitoring and closed circuit systems, authentication systems, thumbprint and voice print devices, retina scans, and more. The Black Hat Briefings held every year in Las Vegas, Washington DC, Amsterdam, and Singapore continually expose the greatest threats to cyber security and provide IT mind leaders with ground breaking defensive techniques. There are no books that show security and networking professionals how to protect physical security devices. This unique book provides step-by-step instructions for assessing the vulnerability of a security device such as a retina scanner, seeing how it might be compromised, and taking protective measures. The book covers the actual device as well as the software that runs it. By way of example, a thumbprint scanner that allows the thumbprint to remain on the glass from the last person could be bypassed by pressing a "gummy bear" piece of candy against the glass so that the scan works against the last thumbprint that was used on the device. This is a simple example of an attack against a physical authentication system. First book by world-renowned Black Hat, Inc. security consultants and trainers First book that details methods for attacking and defending physical security devices Black Hat, Inc. is the premier, worldwide provider of security training, consulting, and conferences Racism is resilient, duplicitous, and endlessly adaptable, so it is no surprise that America is again in a period of civil rights activism. A significant reason racism endures is because it is structural: it's embedded in culture and in institutions. One of the places that racism hides-and thus perhaps the best place to oppose it-is books for young people. Was the Cat in the Hat Black? presents five serious critiques of the history and current state of children's literature tempestuous relationship with both implicit and explicit forms of racism. The book fearlessly examines topics both vivid-such as The Cat in the Hat's roots in blackface minstrelsy-and more opaque, like how the children's book industry can perpetuate structural racism via whitewashed covers even while making efforts to increase diversity. Rooted in research yet written with a lively, crackling touch, Nel delves into years of literary criticism and recent sociological data in order to show a better way forward. Though much of what is proposed here could be endlessly argued, the knowledge that what we learn in childhood imparts both subtle and explicit lessons about whose lives matter is not debatable. The text concludes with a short and stark proposal of actions everyone-reader, author, publisher, scholar, citizen- can take to fight the biases and prejudices that infect children's literature. While Was the Cat in the Hat Black? does not assume it has all the answers to such a deeply systemic problem, its audacity should stimulate discussion and activism. It’s easy to write correct Ruby code, but to gain the fluency needed to write great Ruby code, you must go beyond syntax and absorb the “Ruby way” of thinking and problem solving. In Eloquent Ruby, Russ Olsen helps you write Ruby like true Rubyists do–so you can

leverage its immense, surprising power. Olsen draws on years of experience internalizing the Ruby culture and teaching Ruby to other programmers. He guides you to the “Ah Ha!” moments when it suddenly becomes clear why Ruby works the way it does, and how you can take advantage of this language’s elegance and expressiveness. Eloquent Ruby starts small, answering tactical questions focused on a single statement, method, test, or bug. You’ll learn how to write code that actually looks like Ruby (not Java or C#); why Ruby has so many control structures; how to use strings, expressions, and symbols; and what dynamic typing is really good for. Next, the book addresses bigger questions related to building methods and classes. You’ll discover why Ruby classes contain so many tiny methods, when to use operator overloading, and when to avoid it. Olsen explains how to write Ruby code that writes its own code–and why you’ll want to. He concludes with powerful project-level features and techniques ranging from gems to Domain Specific Languages. A part of the renowned Addison-Wesley Professional Ruby Series, Eloquent Ruby will help you “put on your Ruby-colored glasses” and get results that make you a true believer. The Basics of Hacking and Penetration Testing serves as an introduction to the steps required to complete a penetration test or perform an ethical hack from beginning to end. This book makes ethical hacking and penetration testing easy – no prior hacking experience is required. It shows how to properly utilize and interpret the results of the modern-day hacking tools required to complete a penetration test. With a simple and clean explanation of how to effectively utilize these tools – as well as the introduction to a four-step methodology for conducting a penetration test or hack – the book provides students with the know-how required to jump start their careers and gain a better understanding of offensive security. The book is organized into 7 chapters that cover hacking tools such as Backtrack Linux, Google reconnaissance, MetaGooFil, dig, Nmap, Nessus, Metasploit, Fast Track Autopwn, Netcat, and Hacker Defender rootkit. Each chapter contains hands-on examples and exercises that are designed to teach learners how to interpret results and utilize those results in later phases. PowerPoint slides are available for use in class. This book is an ideal reference for security consultants, beginning InfoSec professionals, and students. Named a 2011 Best Hacking and Pen Testing Book by InfoSec Reviews Each chapter contains hands-on examples and exercises that are designed to teach you how to interpret the results and utilize those results in later phases. Writen by an author who works in the field as a Penetration Tester and who teaches Offensive Security, Penetration Testing, and Ethical Hacking, and Exploitation classes at Dakota State University. Utilizes the Backtrack Linus distribution and focuses on the seminal tools required to complete a penetration test. The New York Times best-selling book exploring the counterproductive reactions white people have when their assumptions about race are challenged, and how these reactions maintain racial inequality. In this “vital, necessary, and beautiful book” (Michael Eric Dyson), antiracist educator Robin DiAngelo deftly illuminates the phenomenon of white fragility and “allows us to understand racism as a practice not restricted to ‘bad people’ (Claudia Rankine). Referring to the defensive moves that white people make when challenged racially, white fragility is characterized by emotions such as anger, fear, and guilt, and by behaviors including argumentation and silence. These behaviors, in turn, function to reinstate white racial equilibrium and prevent any meaningful cross-racial dialogue. In this in-depth exploration, DiAngelo examines how white fragility develops, how it protects racial inequality, and what we can do to engage more constructively. This collection bundles all three of bestselling author DiAnn Mills’s FBI: Houston novels into one e-book for a great value! #1 Firewall (2015 Christy Award finalist; 2014 winner of a Genre Fiction award from Library Journal) After a whirlwind romance, Taryn Young is preparing to board a plane at Houston International Airport, bound for a dream honeymoon, when a bomb decimates the terminal. Injured but still alive, she awakens to discover her husband is missing and they’re both considered prime suspects in the attack. Further, the FBI is convinced her husband isn’t who he appears to be. Agent Grayson Hall’s number-one priority is to catch those responsible for the day’s act of terror. All evidence is pointing to Taryn and her new husband. But his instinct tells him her pleas of innocence are genuine. Is her naiveté just for show, or could she truly be another victim of a master scheme, possibly linked to the software she recently developed for her company? With both their lives and reputations on the line,

and the media outcry for justice increasing with each passing minute, Taryn and Grayson have no choice but to trust one another . . . and pray they can uncover the truth before they become two more casualties. #2 Double Cross FBI Agent Laurel Evertson's investigation into a scam targeting the elderly takes an unexpected twist when key evidence leads her to Morton Wilmington, a felon she arrested five years ago on her first undercover assignment. That case has haunted her since, and though she's vowed to forget Wilmington—and what she sacrificed to put him away—he is now her best lead. Houston Police Officer Daniel Hilton fears his grandparents may be the scammer's next targets, and he'll do anything to protect his family—even force interagency cooperation. But he's quickly drawn to Laurel's empathy and zeal and agrees to follow her lead . . . even if it means teaming up with a felon. As the unlikely trio uncovers evidence suggesting the scam is more extensive and deadly than they imagined, both Laurel and Daniel find themselves in the crosshairs of a killer. Together they must decide if they can trust Wilmington's claims of redemption, or if he's leading them straight into a double cross. #3 Deadlock Two murders have rocked the city of Houston. Are they the work of a serial killer, or is a copycat trying to get away with murder? That is the question facing Special Agent Bethany Sanchez, who is eager for her new assignment in violent crimes but anxious about meeting her new partner. Special Agent Thatcher Graves once arrested her brother, and he has a reputation for being a maverick. Plus, their investigative styles couldn't be more opposite: he operates on instinct, while she goes by the book. When hot leads soon fizzle out, their differences threaten to leave them deadlocked. But an attempt on their lives turns up the heat and brings them closer together, and a third victim might yield the clue that will help them zero in on a killer. This could be the case of their careers . . . if they can survive long enough to solve it. The cultural critic questions how modern people understand the concept of villainy, describing how his youthful idealism gave way to an adult sympathy with notorious cultural figures to offer insight into the appeal of anti-heroes. The Judge Lied: True Story "Someone must be trusted, let it be the judges." –Lord Denning "Transparent, equality, and EXACT laws." – President Thomas Jefferson In recent years, there has been a rising crescendo of complaint over the legitimacy – sometimes even the honesty – of particular judicial conduct. From political conservatives come charges that judges are overriding the will of the people as expressed in statute and referenda relating to abortions, gay rights, affirmative action, religion, and other subjects. From political liberals come charges of bias against women, sexual misconduct, harshness towards the interest of minorities, and forced imposition of deeply conservative political views. From both sides come charges of overriding the people's views and protecting the professional politicians by striking down term limits. From all venues, even high-priced corporate lawyers, comes tyrannical and arbitrary conduct by trial judges. Misuse of position and even bribery are known to have sometimes existed. Beyond these matters, one dean of a law school's thirty-four years as a law professor and litigator persuaded him that there is yet another problem, one that is widespread. It is that judges too often are unwilling to listen to facts or reasons. They start with predilections heavily favouring one side; predilections, which they, of course, deny, and then prove impervious to facts and resulting reasons contrary to their bias. When judges act on the basis of their prior predilection, ignore facts, and even make up supposed counter facts, they destroy a central tenet of the judicial system: the decision of cases based upon facts rather than prejudice. They also destroy faith in the judicial system. Recounts the life of a young woman who marries a rodeo cowboy and their life together as she follows him to ranches in Idaho, Colorado, and California. Two children sitting at home on a rainy day are visited by the cat who shows them some tricks and games. Like the best-selling Black Hat Python, Black Hat Go explores the darker side of the popular Go programming language. This collection of short scripts will help you test your systems, build and automate tools to fit your needs, and improve your offensive security skillset. Black Hat Go explores the darker side of Go, the popular programming language revered by hackers for its simplicity, efficiency, and reliability. It provides an arsenal of practical tactics from the perspective of security practitioners and hackers to help you test your systems, build and automate tools to fit your needs, and improve your offensive security skillset, all using the power of Go. You'll begin your journey with a basic overview of Go's syntax and philosophy

and then start to explore examples that you can leverage for tool development, including common network protocols like HTTP, DNS, and SMB. You'll then dig into various tactics and problems that penetration testers encounter, addressing things like data pilfering, packet sniffing, and exploit development. You'll create dynamic, pluggable tools before diving into cryptography, attacking Microsoft Windows, and implementing steganography. You'll learn how to: Make performant tools that can be used for your own security projects Create usable tools that interact with remote APIs Scrape arbitrary HTML data Use Go's standard package, net/http, for building HTTP servers Write your own DNS server and proxy Use DNS tunneling to establish a C2 channel out of a restrictive network Create a vulnerability fuzzer to discover an application's security weaknesses Use plug-ins and extensions to future-proof productsBuild an RC2 symmetric-key brute-forcer Implant data within a Portable Network Graphics (PNG) image. Are you ready to add to your arsenal of security tools? Then let's Go! The essays in this volume illustrate the difficult real world ethical questions and issues arising from accelerating technological change in the military and security domains, and place those challenges in the context of rapidly shifting geopolitical and strategic frameworks. Specific technologies such as autonomous robotic systems, unmanned aerial vehicles, cybersecurity and cyberconflict, and biotechnology are highlighted, but the essays are chosen so that the broader implications of fundamental systemic change are identified and addressed. Additionally, an important consideration with many of these technologies is that even if they are initially designed and intended for military or security applications, they inevitably spread to civil society, where their application may raise very different ethical questions around such core values as privacy, security from criminal behaviour, and state police power. Accordingly, this volume is of interest to students of military or security domains, as well as to those interested in technology and society, and the philosophy of technology. Il terreno dell’hacking è impervio e somiglia a una zona di guerra, in cui non ci si può fidare di niente e di nessuno. Seguendo le chiare spiegazioni passo passo e le esercitazioni pratiche presenti in questo libro, il lettore vivrà una sorta di addestramento, durante il quale imparerà a sfruttare gli strumenti disponibili in Rete ma all’occorrenza saprà anche crearne anche di nuovi, contando solo su Python e la sua libreria standard. Dopo la preparazione dell’ambiente di sviluppo e un’introduzione al funzionamento delle reti, si passa alla spiegazione dello sniffing di pacchetti e a tutto ciò che concerne l’intercettazione delle comunicazioni a ogni livello. Sono quindi descritti alcuni framework fondamentali che possono essere integrati nel flusso di lavoro di un hacker Python: Scapy, Burp, ma anche GitHub, uno dei servizi più noti al mondo per la condivisione del codice. Nei capitoli finali, che illustrano le tecniche più avanzate, il libro mostra come realizzare un framework per trojan, approfondisce l’esfiltrazione dei dati e svela come scalare i privilegi in Windows, fino a spingersi nell’ambito dell’informatica forense. Learn to use C#'s powerful set of core libraries to automate tedious yet important tasks like performing vulnerability scans, malware analysis, and incident response. With some help from Mono, you can write your own practical security tools that will run on Mac, Linux, and even mobile devices. Following a crash course in C# and some of its advanced features, you’ll learn how to: -Write fuzzers that use the HTTP and XML libraries to scan for SQL and XSS injection -Generate shellcode in Metasploit to create cross-platform and cross-architecture payloads -Automate Nessus, OpenVAS, and sqlmap to scan for vulnerabilities and exploit SQL injections -Write a .NET decompiler for Mac and Linux -Parse and read offline registry hives to dump system information -Automate the security tools Arachni and Metasploit using their MSGPACK RPCs Streamline and simplify your work day with Gray Hat C# and C#’s extensive repertoire of powerful tools and libraries. The Complete Guide to Writing Maintainable, Manageable, Pleasing, and Powerful Object-Oriented Applications Object-oriented programming languages exist to help you create beautiful, straightforward applications that are easy to change and simple to extend. Unfortunately, the world is awash with object-oriented (OO) applications that are difficult to understand and expensive to change. Practical Object-Oriented Design, Second Edition, immerses you in an OO mindset and teaches you powerful, real-world, object-oriented design techniques with simple and practical examples. Sandi Metz demonstrates how to build new applications that can “survive success” and repair existing applications that have

become impossible to change. Each technique is illustrated with extended examples in the easy-to-understand Ruby programming language, all downloadable from the companion website, poodr.com. Fully updated for Ruby 2.5, this guide shows how to Decide what belongs in a single class Avoid entangling objects that should be kept separate Define flexible interfaces among objects Reduce programming overhead costs with duck typing Successfully apply inheritance Build objects via composition Whatever your previous object-oriented experience, this concise guide will help you achieve the superior outcomes you're looking for. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details. 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. The cultural critic questions how modern people understand the concept of villainy, describing how his youthful idealism gave way to an adult sympathy with notorious cultural figures to offer insight into the appeal of anti-heroes. "...excellent for use as a text in information assurance or cyber-security courses...I strongly advocate that professors...examine this book with the intention of using it in their programs." (Computing Reviews.com, March 22, 2007) "The book is written as a student textbook, but it should be equally valuable for current practitioners...this book is a very worthwhile investment." (Homeland Security Watch, August 17, 2006) While the emphasis is on the development of policies that lead to successful prevention of terrorist attacks on the nation's infrastructure, this book is the first scientific study of critical infrastructures and their protection. The book models the nation's most valuable physical assets and infrastructure sectors as networks of nodes and links. It then analyzes the network to identify vulnerabilities and risks in the sector combining network science, complexity theory, modeling and simulation, and risk analysis. The most critical components become the focus of deeper analysis and protection. This approach reduces the complex problem of protecting water supplies, energy pipelines, telecommunication stations, Internet and Web networks, and power grids to a much simpler problem of protecting a few critical nodes. The new edition incorporates a broader selection of ideas and sectors and moves the mathematical topics into several appendices. What will you learn from this book? What's all the buzz about this Ruby language? Is it right for you? Well, ask yourself: are you tired of all those extra declarations, keywords, and compilation steps in your other language? Do you want to be a more productive programmer? Then you'll love Ruby. With this unique hands-on learning experience, you'll discover how Ruby takes care of all the details for you, so you can simply have fun and get more done with less code. Why does this book look so

different? Based on the latest research in cognitive science and learning theory, Head First Ruby uses a visually rich format to engage your mind, rather than a text-heavy approach to put you to sleep. Why waste your time struggling with new concepts? This multi-sensory learning experience is designed for the way your brain really works. This book constitutes the refereed proceedings of the 12th International Conference on Digital Forensics and Cyber Crime, ICDF2C 2021, held in Singapore in December 2021. Due to COVID-19 pandemic the conference was held virtually. The 22 reviewed full papers were selected from 52 submissions and present digital forensic technologies and techniques for a variety of applications in criminal investigations, incident response and information security. The focus of ICDS2C 2021 was on various applications and digital evidence and forensics beyond traditional cybercrime investigations and litigation. Gerald tells of the very unusual animals he would add to the zoo, if he were in charge. 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. Gain a practical prescription for both private and public organizations to remediate threats and maintain a competitive pace to lead and thrive in an ever-shifting environment. In today’s hyper-connected, always-on era of pervasive mobility, cloud computing and intelligent connected devices, virtually every step we take, every transaction we initiate, and every interaction we have are supported in some way by this vast global infrastructure. This set of interconnected systems comprises the fundamental building blocks of the second economy – the very foundation of our first economy. And adversaries, whether motivated by profit, principle or province, are singularly focused on winning the race through a relentless portfolio of shifting attack vectors. Make no mistake about it, we are running a race. This is a race against a faceless, nameless adversary – one that dictates the starting line, the rules of the road, and what trophies are at stake. Established assumptions must be challenged, strategies must be revised, and long-held practices must be upended to run this race and effectively compete. The Second Economy highlights a second to none approach in this fight, as the effectiveness and ROI of security solutions are increasingly measured by the business outcomes they enable. What You Will Learn: Understand the value of time and trust in a cyber-warfare world Enable agile and intelligent organizations to minimize their risk of falling victim to the next attack Accelerate response time by adopting a holistic approach Eliminate friction across the threat defense lifecycle, from protection to detection to correction Gain a sustainable competitive advantage by seizing first mover advantage Deploy solutions across an open, integrated security framework Who This Book Is For: Senior-level IT decision makers concerned with ascribing business value to a robust security strategy. The book also addresses business decision makers who must be educated about the pervasive and growing cyber threatscape (including CXOs, board directors, and functional leaders) as well as general business employees to understand how they may become unwitting participants in a complex cyber war. Discover an up-to-date and authoritative exploration of Python cybersecurity strategies Python For Cybersecurity: Using Python for Cyber Offense and Defense delivers an intuitive and hands-on explanation of using Python for cybersecurity. It relies on the MITRE ATT&CK framework to structure its exploration of cyberattack techniques, attack defenses, and the key cybersecurity challenges facing network administrators and other stakeholders today. Offering downloadable sample code, the book is written to help you discover how to use Python in a wide variety of cybersecurity situations, including: Reconnaissance, resource

development, initial access, and execution Persistence, privilege escalation, defense evasion, and credential access Discovery, lateral movement, collection, and command and control Exfiltration and impact Each chapter includes discussions of several techniques and sub-techniques that could be used to achieve an attacker's objectives in any of these use cases. The ideal resource for anyone with a professional or personal interest in cybersecurity, Python For Cybersecurity offers in-depth information about a wide variety of attacks and effective, Python-based defenses against them.