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CEH Certified Ethical Hacker Study Guide - Kimberly Graves 2010-06-03
Full Coverage of All Exam Objectives for the CEH Exams 312-50 and EC0-350 Thoroughly prepare for the challenging CEH Certified Ethical Hackers exam with this comprehensive study guide. The book provides full coverage of exam topics, real-world examples, and includes a CD with chapter review questions, two full-length practice exams, electronic flashcards, a glossary of key terms, and the entire book in a searchable pdf e-book. What's Inside: Covers ethics and legal issues, footprinting, scanning, enumeration, system hacking, trojans and backdoors, sniffers, denial of service, social engineering, session hijacking, hacking Web servers, Web application vulnerabilities, and more Walks you through exam topics and includes plenty of real-world scenarios to help reinforce concepts Includes a CD with an assessment test, review questions, practice exams, electronic flashcards, and the entire book in a searchable pdf

Cybersecurity Foundations - Lee Zeichner 2014-05-31
Cybersecurity Foundations provides all of the information readers need to become contributing members of the cybersecurity community. The book provides critical knowledge in the six disciplines of cybersecurity: (1) Risk Management; (2) Law and Policy; (3) Management Theory and Practice; (4) Computer Science Fundamentals and Operations; (5) Private Sector Applications of Cybersecurity; (6) Cybersecurity Theory and Research Methods. Cybesecurity Foundations was written by cybersecurity professionals with decades of combined experience working in both the public and private sectors.

Violent Python - TJ O'Connor 2012-12-28
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

Ours to Hack and to Own - Trebor Scholz 2017

With the rollback of net neutrality, platform cooperativism becomes even more pressing: In one volume, some of the most cogent thinkers and doers on the subject of the cooptation of the Internet, and how we can resist and reverse the process.

Privileged Attack Vectors - Morey J. Haber 2020-06-13

See how privileges, insecure passwords, administrative rights, and remote access can be combined as an attack vector to breach any organization. Cyber attacks continue to increase in volume and sophistication. It is not a matter of if, but when, your organization will be breached. Threat actors target the path of least resistance: users and their privileges. In decades past, an entire enterprise might be sufficiently managed through just a handful of credentials. Today's environmental complexity has seen an explosion of privileged credentials for many different account types such as domain and local administrators, operating systems (Windows, Unix, Linux, macOS, etc.), directory services, databases, applications, cloud instances, networking hardware, Internet of Things (IoT), social media, and so many more. When unmanaged, these privileged credentials pose a significant threat from external hackers and insider threats. We are experiencing an expanding universe of privileged accounts almost everywhere. There is no one solution or strategy to provide the protection you need against all vectors and stages of an attack. And while some new and innovative products will help protect against or detect against a privilege attack, they are not guaranteed to stop 100% of malicious activity. The volume and frequency of privilege-based attacks continues to increase and test the limits of existing security controls and solution implementations. Privileged Attack Vectors details the risks associated with poor privilege management, the techniques that threat actors leverage, and the defensive measures that organizations should adopt to protect against an incident, protect against lateral movement, and improve the ability to detect malicious activity due to the inappropriate usage of privileged credentials. This revised and expanded second edition covers new attack vectors, has updated definitions for privileged access management (PAM), new strategies for defense, tested empirical steps for a successful implementation, and includes new disciplines for least privilege endpoint management and privileged remote access. What You Will Learn Know how identities, accounts, credentials, passwords, and exploits can be leveraged to escalate privileges during an attack Implement defensive and monitoring strategies to mitigate privilege threats and risk Understand a 10-step universal privilege management implementation plan to guide you through a successful privilege access management journeyDevelop a comprehensive model for documenting risk, compliance, and reporting based on privilege session activity Who This Book Is For Security management professionals, new security professionals, and auditors looking to understand and solve privilege access management problems

Advances in Cryptology – CRYPTO 2019 - Alexandra Boldyreva 2019-08-09

The three-volume set, LNCS 11692, LNCS 11693, and LNCS 11694, constitutes the refereed proceedings of the 39th Annual International Cryptology Conference, CRYPTO 2019, held in Santa Barbara, CA, USA, in August 2019. The 81 revised full papers presented were carefully reviewed

and selected from 378 submissions. The papers are organized in the following topical sections: Part I: Award papers; lattice-based ZK; symmetric cryptography; mathematical cryptanalysis; proofs of storage; non-malleable codes; SNARKs and blockchains; homomorphic cryptography; leakage models and key reuse. Part II: MPC communication complexity; symmetric cryptanalysis; (post) quantum cryptography; leakage resilience; memory hard functions and privacy amplification; attribute based encryption; foundations. Part III: Trapdoor functions; zero knowledge I; signatures and messaging; obfuscation; watermarking; secure computation; various topics; zero knowledge II; key exchange and broadcast encryption.

Cybersecurity Blue Team Toolkit - Nadean H. Tanner 2019-04-04

A practical handbook to cybersecurity for both tech and non-tech professionals As reports of major data breaches fill the headlines, it has become impossible for any business, large or small, to ignore the importance of cybersecurity. Most books on the subject, however, are either too specialized for the non-technical professional or too general for positions in the IT trenches. Thanks to author Nadean Tanner's wide array of experience from teaching at a University to working for the Department of Defense, the Cybersecurity Blue Team Toolkit strikes the perfect balance of substantive and accessible, making it equally useful to those in IT or management positions across a variety of industries. This handy guide takes a simple and strategic look at best practices and tools available to both cybersecurity management and hands-on professionals, whether they be new to the field or looking to expand their expertise. Tanner gives comprehensive coverage to such crucial topics as security assessment and configuration, strategies for protection and defense, offensive measures, and remediation while aligning the concept with the right tool using the CIS Controls version 7 as a guide. Readers will learn why and how to use fundamental open source and free tools such as ping, tracert, PuTTY, pathping, sysinternals, NMAP, OpenVAS, Nexpose Community, OSSEC, Hamachi, InSSIDer, Nexpose Community, Wireshark, Solarwinds Kiwi Syslog Server, Metasploit, Burp, Clonezilla and many more. Up-to-date and practical cybersecurity instruction, applicable to both management and technical positions • Straightforward explanations of the theory behind cybersecurity best practices • Designed to be an easily navigated tool for daily use • Includes training appendix on Linux, how to build a virtual lab and glossary of key terms The Cybersecurity Blue Team Toolkit is an excellent resource for anyone working in digital policy as well as IT security professionals, technical analysts, program managers, and Chief Information and Technology Officers. This is one handbook that won't gather dust on the shelf, but remain a valuable reference at any career level, from student to executive.

Tor - Jack Jones 2017-04-10

Would You Like To Learn Exactly How To Protect Your Identity On The Web? - NOW INCLUDES FREE GIFTS! (see below for details) Have you been drawn to the dark side of the web? Do you long for the days when anonymity on the web was the norm rather than the exception? Do you want to experience the web away from all prying eyes and experience real online freedom? Do you want to learn to play safely in the deep web? If the answer to any of these questions is yes, this book will provide you with the answers you''ve been looking for! The deep web is one of the last true bastions of freedom on the internet. It is the place that few search engines dare to tread. It is exciting and has a true air of mystery about it. But it''s also a place that not too many people know how to access. If you value your online privacy, Google is clearly not the answer. Just take a moment to think about everything that Google already knows about you. And, here''s a hint - it''s more than just your location and birthday. Google gathers information about you with every search you make. Which means it knows how you like your pizza and probably also

your shoe size. But is there an alternative? You''ve probably heard it whispered about in hushed tones - the dark web. But how do you access it? Can you even access it if you aren''t a serious geek? How do you navigate it safely? Can you really protect your privacy when you are online at all? Now I''m going to let you in on a secret - you can keep your anonymity on the web. You don''t have to know how to run elaborate software to delete all your tracks. All you need is a simple program. It''s free, it''s super-simple to install and run and you can use it today. TOR will do it all for you - it acts as an intermediary so that you don''t have to divulge your personal information when you are online. And then it routes your online activity through a number of different secure nodes making it really difficult to track. Could it really be that simple? Despite what you see in the movies, yes it can. But you do need to know the rules. You need to know how the system works and how to get it to work for you. This book is going to show you how to do that. You will learn how to make your first forays into the deep web. And hold your horses, it will be a fun ride. The deep web is totally different from your normal internet. You need to know how to get it to give up its secrets. But, once you do, you will have a blast. The deep web can seem like a dark and scary place, but it doesn''t have to be. With this book, you will learn how to find the information you are looking for, what to do if you do happen on an illegal website and what you need to do to make the experience as simple and safe for you as possible. This is web-surfing as it was meant to be - unfettered and completely free. In this book we will look at: Staying Anonymous on the Deep Web What the TOR network is Whether or not TOR is the answer for you How to get started with TOR quickly and safely How to stay completely anonymous with TOR How to surf the dark web safely What you can expect to find on the dark web ...and much more! Also included for a limited time only are 2 FREE GIFTS, including a full length, surprise FREE BOOK! Take the first step towards complete online anonymity today. Click the buy now button above for instant access. Also included are 2 FREE GIFTS! - A sample from one of my other best selling books, and full length, FREE BOOKS included with your purchase!

Tor and the Dark Art of Anonymity - Lance Henderson 2022-08-22

Tired of being spied on? Sometimes a victim decides to stop being a victim. Master the dark art of anonymity today and get instant access to thousands of deep web hidden websites, portals and secret files plus access to the Hidden Wiki, all for free. The evidence is in: It's 1984 and the surveillance powers that be possess a special hatred for individual thought, free speech and online privacy. That means most 3 letter agencies as well as most Big Brother groups like Google, Facebook and Twitter. You're being tracked left, right and center. Today's written word will be used against you in the future. Don't let a tyrannical future bite you in your backside. It's time to FIGHT BACK. Other books tell you to install this or that and leave it at that. This book goes much deeper, delving into the very heart of invisibility, offline and on: how to create a new darknet persona and leave no electronic trail...with Tor or a hundred other apps. In essence, how to be anonymous without looking like you're trying to be anonymous. Covered: - Darknet Marketplaces & Opsec - Why Silk Road Failed - Cryptocurrency - The Hidden Wiki - What To Do If Caught - How to Run a Hidden Server on the Deep Web - Linux Encryption & Mobile Tor - Darknet Personas - Police Raids - How to Survive a Police Interrogation - How Hacking Groups like Anonymous and Reloaded stay hidden. - Opsec for dealing in exotic contraband - Cybersecurity secrets And much more! Don't wait. If you love privacy, freedom and the democratic way of life, this is your chance to learn in hours, not years, what most alphabet agencies like the FBI and NSA already know. Do not wait until a farenheit 451 situation erupts and reading these kinds of books will be forbidden. The greatest risk to evil thriving is when good men do nothing. Buy today and take anonymity to the next level.

Because tomorrow may be too late!

Ethical Hacking - Alana Maurushat 2019-04-09

How will governments and courts protect civil liberties in this new era of hacktivism? Ethical Hacking discusses the attendant moral and legal issues. The first part of the 21st century will likely go down in history as the era when ethical hackers opened governments and the line of transparency moved by force. One need only read the motto “we open governments” on the Twitter page for Wikileaks to gain a sense of the sea change that has occurred. Ethical hacking is the non-violent use of a technology in pursuit of a cause—political or otherwise—which is often legally and morally ambiguous. Hacktivists believe in two general but spirited principles: respect for human rights and fundamental freedoms, including freedom of expression and personal privacy; and the responsibility of government to be open, transparent and fully accountable to the public. How courts and governments will deal with hacking attempts which operate in a grey zone of the law and where different ethical views collide remains to be seen. What is undisputed is that Ethical Hacking presents a fundamental discussion of key societal questions. A fundamental discussion of key societal questions. This book is published in English. - La première moitié du XXIe siècle sera sans doute reconnue comme l’époque où le piratage éthique a ouvert de force les gouvernements, déplaçant les limites de la transparence. La page twitter de Wikileaks enchâsse cet ethos à même sa devise, « we open governments », et sa volonté d’être omniprésent. En parallèle, les grandes sociétés de technologie comme Apple se font compétition pour produire des produits de plus en plus sécuritaires et à protéger les données de leurs clients, alors même que les gouvernements tentent de limiter et de décrypter ces nouvelles technologies d’encryption. Entre-temps, le marché des vulnérabilités en matière de sécurité augmente à mesure que les experts en sécurité informatique vendent des vulnérabilités de logiciels des grandes technologies, dont Apple et Google, contre des sommes allant de 10 000 à 1,5 million de dollars. L’activisme en sécurité est à la hausse. Le piratage éthique est l’utilisation non-violence d’une technologie quelconque en soutien d’une cause politique ou autre qui est souvent ambigue d’un point de vue juridique et moral. Le hacking éthique peut désigner les actes de vérification de pénétration professionnelle ou d’experts en sécurité informatique, de même que d’autres formes d’actions émergentes, comme l’hacktivisme et la désobéissance civile en ligne. L’hacktivisme est une forme de piratage éthique, mais également une forme de militantisme des droits civils à l’ère numérique. En principe, les adeptes du hacktivisme croient en deux grands principes : le respect des droits de la personne et les libertés fondamentales, y compris la liberté d’expression et à la vie privée, et la responsabilité des gouvernements d’être ouverts, transparents et pleinement redevables au public. En pratique, toutefois, les antécédents comme les agendas des hacktivistes sont fort diversifiés. Il n’est pas clair de quelle façon les tribunaux et les gouvernements traiteront des tentatives de piratage eu égard aux zones grises juridiques, aux approches éthiques conflictuelles, et compte tenu du fait qu’il n’existe actuellement, dans le monde, presque aucune exception aux provisions, en matière de cybercrime et de crime informatique, liées à la recherche sur la sécurité ou l’intérêt public. Il sera également difficile de déterminer le lien entre hacktivisme et droits civils. Ce livre est publié en anglais.

Finance & Development, September 2019 - International Monetary Fund. Communications Department 2019-08-13

This issue of Finance & Development focuses on dark web of secret transactions that enable tax evasion and avoidance, money laundering, illicit financial flows, and corruption. Demands on government resources are building—to boost growth in some advanced economies, build infrastructure in emerging markets, and improve health and education in the developing world. IMF research shows that countries with lower levels of

perceived corruption have significantly less waste in public projects. Among low-income countries, the share of the budget dedicated to education and health is one-third lower in more corrupt countries. The rise of digital finance, crypto assets, and cybercrime adds to the challenges. Consider the so-called dark web, a hidden marketplace for everything from stolen identities to arms and narcotics. Improving governance is not easy; it requires sustained effort over the long term.

Beginning Ethical Hacking with Kali Linux - Sanjib Sinha 2018-11-29

Get started in white-hat ethical hacking using Kali Linux. This book starts off by giving you an overview of security trends, where you will learn the OSI security architecture. This will form the foundation for the rest of Beginning Ethical Hacking with Kali Linux. With the theory out of the way, you'll move on to an introduction to VirtualBox, networking, and common Linux commands, followed by the step-by-step procedure to build your own web server and acquire the skill to be anonymous . When you have finished the examples in the first part of your book, you will have all you need to carry out safe and ethical hacking experiments. After an introduction to Kali Linux, you will carry out your first penetration tests with Python and code raw binary packets for use in those tests. You will learn how to find secret directories on a target system, use a TCP client in Python, and scan ports using NMAP. Along the way you will discover effective ways to collect important information, track email, and use important tools such as DMITRY and Maltego, as well as take a look at the five phases of penetration testing. The coverage of vulnerability analysis includes sniffing and spoofing, why ARP poisoning is a threat, how SniffJoke prevents poisoning, how to analyze protocols with Wireshark, and using sniffing packets with Scapy. The next part of the book shows you detecting SQL injection vulnerabilities, using sqlmap, and applying brute force or password attacks. Besides learning these tools, you will see how to use OpenVas, Nikto, Vega, and Burp Suite. The book will explain the information assurance model and the hacking framework Metasploit, taking you through important commands, exploit and payload basics. Moving on to hashes and passwords you will learn password testing and hacking techniques with John the Ripper and Rainbow. You will then dive into classic and modern encryption techniques where you will learn the conventional cryptosystem. In the final chapter you will acquire the skill of exploiting remote Windows and Linux systems and you will learn how to own a target completely. What You Will LearnMaster common Linux commands and networking techniques Build your own Kali web server and learn to be anonymous Carry out penetration testing using Python Detect sniffing attacks and SQL injection vulnerabilities Learn tools such as SniffJoke, Wireshark, Scapy, sqlmap, OpenVas, Nikto, and Burp Suite Use Metasploit with Kali Linux Exploit remote Windows and Linux systemsWho This Book Is For Developers new to ethical hacking with a basic understanding of Linux programming.

Ethics for the Information Age - Michael Jay Quinn 2006

Widely praised for its balanced treatment of computer ethics, Ethics for the Information Age offers a modern presentation of the moral controversies surrounding information technology. Topics such as privacy and intellectual property are explored through multiple ethical theories, encouraging readers to think critically about these issues and to make their own ethical decisions.

The Mac Hacker's Handbook - Charlie Miller 2011-03-21

As more and more vulnerabilities are found in the Mac OS X (Leopard) operating system, security researchers are realizing the importance of developing proof-of-concept exploits for those vulnerabilities. This unique tome is the first book to uncover the flaws in the Mac OS X operating system—and how to deal with them. Written by two white hat hackers, this book is aimed at making vital information known so that you can find ways to secure your Mac OS X systems, and examines the sorts of attacks that are prevented by Leopard's security

defenses, what attacks aren't, and how to best handle those weaknesses.

Republic of Lies - Anna Merlan 2019-04-16

A riveting tour through the landscape and meaning of modern conspiracy theories, exploring the causes and tenacity of this American malady, from Birthers to Pizzagate and beyond. American society has always been fertile ground for conspiracy theories, but with the election of Donald Trump, previously outlandish ideas suddenly attained legitimacy. Trump himself is a conspiracy enthusiast: from his claim that global warming is a Chinese hoax to the accusations of "fake news," he has fanned the flames of suspicion. But it was not by the power of one man alone that these ideas gained new power. Republic of Lies looks beyond the caricatures of conspiracy theorists to explain their tenacity. Without lending the theories validity, Anna Merlan gives a nuanced, sympathetic account of the people behind them, across the political spectrum, and the circumstances that helped them take hold. The lack of a social safety net, inadequate education, bitter culture wars, and years of economic insecurity have created large groups of people who feel forgotten by their government and even besieged by it. Our contemporary conditions are a perfect petri dish for conspiracy movements: a durable, permanent, elastic climate of alienation and resentment. All the while, an army of politicians and conspiracy-peddlers has fanned the flames of suspicion to serve their own ends. Bringing together penetrating historical analysis and gripping on-the-ground reporting, Republic of Lies transforms our understanding of American paranoia.

Python for Data Analysis - Wes McKinney 2017-09-25

Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples

Homeland - Cory Doctorow 2013-02-05

In Cory Doctorow's wildly successful Little Brother, young Marcus Yallow was arbitrarily detained and brutalized by the government in the wake of a terrorist attack on San Francisco—an experience that led him to become a leader of the whole movement of technologically clued-in teenagers, fighting back against the tyrannical security state. A few years later, California's economy collapses, but Marcus's hacktivist past lands him a job as webmaster for a crusading politician who promises reform. Soon his former nemesis Masha emerges from the political underground to gift him with a thumbdrive containing a Wikileaks-style cable-dump of hard evidence of corporate and governmental perfidy. It's incendiary stuff—and if Masha goes missing, Marcus is supposed to release it to the world. Then Marcus sees Masha being kidnapped by the same government agents who detained and tortured Marcus years earlier. Marcus can leak the archive Masha gave him—but he can't admit to being the leaker, because that will cost his employer the election. He's surrounded by friends who remember what he did a few years ago and regard him as a hacker hero. He can't even attend a demonstration without being dragged onstage and handed a mike. He's not at all sure

that just dumping the archive onto the Internet, before he's gone through its millions of words, is the right thing to do. Meanwhile, people are beginning to shadow him, people who look like they're used to inflicting pain until they get the answers they want. Fast-moving, passionate, and as current as next week, Homeland is every bit the equal of Little Brother—a paean to activism, to courage, to the drive to make the world a better place. At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

Cyber Defence in the Age of AI, Smart Societies and Augmented Humanity - Hamid Jahankhani 2020-04-06

This publication highlights the fast-moving technological advancement and infiltration of Artificial Intelligence into society. Concepts of evolution of society through interconnectivity are explored, together with how the fusion of human and technological interaction leading to Augmented Humanity is fast becoming more than just an endemic phase, but a cultural phase shift to digital societies. It aims to balance both the positive progressive outlooks such developments bring with potential issues that may stem from innovation of this kind, such as the invasive procedures of bio hacking or ethical connotations concerning the usage of digital twins. This publication will also give the reader a good level of understanding on fundamental cyber defence principles, interactions with Critical National Infrastructure (CNI) and the Command, Control, Communications and Intelligence (C3I) decision-making framework. A detailed view of the cyber-attack landscape will be garnered; touching on the tactics, techniques and procedures used, red and blue teaming initiatives, cyber resilience and the protection of larger scale systems. The integration of AI, smart societies, the human-centric approach and Augmented Humanity is discernible in the exponential growth, collection and use of [big] data; concepts woven throughout the diversity of topics covered in this publication; which also discusses the privacy and transparency of data ownership, and the potential dangers of exploitation through social media. As humans are become ever more interconnected, with the prolificacy of smart wearable devices and wearable body area networks, the availability of and abundance of user data and metadata derived from individuals has grown exponentially. The notion of data ownership, privacy and situational awareness are now at the forefront in this new age.

It's Complicated - Danah Boyd 2014-02-25

Surveys the online social habits of American teens and analyzes the role technology and social media plays in their lives, examining common misconceptions about such topics as identity, privacy, danger, and bullying.

Security and Privacy in Communication Networks - Noseong Park 2020-12-11

This two-volume set LNICST 335 and 336 constitutes the post-conference proceedings of the 16th International Conference on Security and Privacy in Communication Networks, SecureComm 2020, held in Washington, DC, USA, in October 2020. The conference was held virtually due to COVID-19 pandemic. The 60 full papers were carefully reviewed and selected from 120 submissions. The papers focus on the latest scientific research results in security and privacy in wired, mobile, hybrid and ad hoc networks, in IoT technologies, in cyber-physical systems, in next-generation communication systems in web and systems security and in pervasive and ubiquitous computing.

Tor and the Dark Net - James Smith 2016-03-21

So many people take their privacy on the internet for granted. Some may know and choose to ignore the fact, but every single thing you do online is being tracked and guess what? For better or for worse it is there forever. Whether you're simply browsing websites or you are accessing confidential information that you would rather no one know about, there are ways to remain anonymous.

Open Source Intelligence Methods and Tools - Nihad A. Hassan 2018-06-30

Apply Open Source Intelligence (OSINT) techniques,

methods, and tools to acquire information from publicly available online sources to support your intelligence analysis. Use the harvested data in different scenarios such as financial, crime, and terrorism investigations as well as performing business competition analysis and acquiring intelligence about individuals and other entities. This book will also improve your skills to acquire information online from both the regular Internet as well as the hidden web through its two sub-layers: the deep web and the dark web. The author includes many OSINT resources that can be used by intelligence agencies as well as by enterprises to monitor trends on a global level, identify risks, and gather competitor intelligence so more effective decisions can be made. You will discover techniques, methods, and tools that are equally used by hackers and penetration testers to gather intelligence about a specific target online. And you will be aware of how OSINT resources can be used in conducting social engineering attacks. Open Source Intelligence Methods and Tools takes a practical approach and lists hundreds of OSINT resources that can be used to gather intelligence from online public sources. The book also covers how to anonymize your digital identity online so you can conduct your searching activities without revealing your identity. What You'll Learn Identify intelligence needs and leverage a broad range of tools and sources to improve data collection, analysis, and decision making in your organization Use OSINT resources to protect individuals and enterprises by discovering data that is online, exposed, and sensitive and hide the data before it is revealed by outside attackers Gather corporate intelligence about business competitors and predict future market directions Conduct advanced searches to gather intelligence from social media sites such as Facebook and Twitter Understand the different layers that make up the Internet and how to search within the invisible web which contains both the deep and the dark webs Who This Book Is For Penetration testers, digital forensics investigators, intelligence services, military, law enforcement, UN agencies, and for-profit/non-profit enterprises

Swipe to Unlock - Neel Mehta 2017

WANT A NON-CODING JOB AT A TECH COMPANY? Interested in product management, marketing, strategy, or business development? The tech industry is the place to be: nontechnical employees at tech companies outnumber their engineering counterparts almost 3 to 1 (Forbes, 2017). You might be worried that your lack of coding skills or tech industry knowledge will hold you back. But here's the secret: you don't need to learn how to code to break into the tech industry. Written by three former Microsoft PMs, Swipe to Unlock gives you a breakdown of the concepts you need to know to crush your interviews, like software development, big data, and internet security. We'll explain how Google's ad targeting algorithm works, but Google probably won't ask you how to explain it in a non-technical interview. But they might ask you how you could increase ad revenue from a particular market segment. And if you know how Google's ad platform works, you'll be in a far stronger position to come up with good growth strategies. We'll show you how Robinhood, an app that lets you trade stocks without commission, makes money by earning interest on the unspent money that users keep in their accounts. No one will ask you to explain this. But if someone asks you to come up with a new monetization strategy for Venmo (which lets you send and receive money without fees), you could pull out the Robinhood anecdote to propose that Venmo earn interest off the money sitting in users' accounts. We'll talk about some business cases like why Microsoft acquired LinkedIn. Microsoft interviewers probably won't ask you about the motive of the purchase, but they might ask you for ideas to improve Microsoft Outlook. From our case study, you'll learn how the Microsoft and LinkedIn ecosystems could work together, which can help you craft creative, impactful answers. You could propose that Outlook use LinkedIn's social graph to give salespeople insights about clients before meeting them. Or you could suggest linking Outlook's

organizational tree to LinkedIn to let HR managers analyze their company's hierarchy and figure out what kind of talent they need to add. (We'll further explore both ideas in the book.) Either way, you're sure to impress. Learn the must know concepts of tech from authors who have received job offers for Facebook's Rotational Product Manager, Google's Associate Product Marketing Manager, and Microsoft's Program Manager to get a competitive edge at your interviews!

Internet of Things, Smart Spaces, and Next Generation Networks and Systems - Olga Galinina 2020-12-22

This book constitutes the joint refereed proceedings of the 20th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networks and Systems, NEW2AN 2020, and the 13th Conference on Internet of Things and Smart Spaces, ruSMART 2020. The conference was held virtually due to the COVID-19 pandemic. The 79 revised full papers presented were carefully reviewed and selected from 225 submissions. The papers of NEW2AN address various aspects of next-generation data networks, with special attention to advanced wireless networking and applications. In particular, they deal with novel and innovative approaches to performance and efficiency analysis of 5G and beyond systems, employed game-theoretical formulations, advanced queuing theory, and stochastic geometry, while also covering the Internet of Things, cyber security, optics, signal processing, as well as business aspects. ruSMART 2020, provides a forum for academic and industrial researchers to discuss new ideas and trends in the emerging areas.

Penetration Testing - Georgia Weidman 2014-06-14

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.

Patterns, Predictions, and Actions: Foundations of Machine Learning - Moritz Hardt 2022-08-23

An authoritative, up-to-date graduate textbook on machine learning that highlights its historical context and societal impacts Patterns, Predictions, and Actions introduces graduate students to the essentials of machine learning while offering invaluable perspective on its history and social implications. Beginning with the foundations of decision making, Moritz Hardt and Benjamin Recht explain how representation, optimization, and generalization are the constituents of supervised learning. They go on to provide self-contained discussions of causality, the practice of causal inference, sequential decision making, and reinforcement learning, equipping readers with the concepts and tools they need to assess the consequences that may arise from acting on statistical decisions. Provides a modern introduction to machine learning, showing how data patterns support predictions and consequential actions Pays special attention to societal impacts and fairness

in decision making Traces the development of machine learning from its origins to today Features a novel chapter on machine learning benchmarks and datasets Invites readers from all backgrounds, requiring some experience with probability, calculus, and linear algebra An essential textbook for students and a guide for researchers

Fiske WordPower - Edward B Fiske 2018-07-03

The Exclusive Method You Can Use to Learn—Not Just Memorize—Essential Words A powerful vocabulary expands your world of opportunity. Building your word power will help you write more effectively, communicate clearly, score higher on standardized tests like the SAT, ACT, or GRE, and be more confident and persuasive in everything you do. Using the exclusive Fiske method, you will not just memorize words, but truly learn their meanings and how to use them correctly. This knowledge will stay with you longer and be easier to recall—and it doesn't take any longer than less-effective memorization. How does it work? This book uses a simple three-part system: 1. Patterns: Words aren't arranged randomly or alphabetically, but in similar groups based on meaning and origin that make words easier to remember over time. 2. Deeper Meanings, More Examples: Full explanations—not just brief definitions—of what the words mean, plus multiple examples of the words in sentences. 3. Quick Activities: Frequent short quizzes help you test how much you've learned, while helping your brain internalize their meanings.

Ready Player One - Ernest Cline 2011-08-16

#1 NEW YORK TIMES BESTSELLER • Now a major motion picture directed by Steven Spielberg. “Enchanting . . . Willy Wonka meets The Matrix.”—USA Today • “As one adventure leads expertly to the next, time simply evaporates.”—Entertainment Weekly A world at stake. A quest for the ultimate prize. Are you ready? In the year 2045, reality is an ugly place. The only time Wade Watts really feels alive is when he’s jacked into the OASIS, a vast virtual world where most of humanity spends their days. When the eccentric creator of the OASIS dies, he leaves behind a series of fiendish puzzles, based on his obsession with the pop culture of decades past. Whoever is first to solve them will inherit his vast fortune—and control of the OASIS itself. Then Wade cracks the first clue. Suddenly he’s beset by rivals who’ll kill to take this prize. The race is on—and the only way to survive is to win. NAMED ONE OF THE BEST BOOKS OF THE YEAR BY Entertainment Weekly • San Francisco Chronicle • Village Voice • Chicago Sun-Times • iO9 • The AV Club “Delightful . . . the grown-up’s Harry Potter.”—HuffPost “An addictive read . . . part intergalactic scavenger hunt, part romance, and all heart.”—CNN “A most excellent ride . . . Cline stuffs his novel with a cornucopia of pop culture, as if to wink to the reader.”—Boston Globe “Ridiculously fun and large-hearted . . . Cline is that rare writer who can translate his own dorky enthusiasms into prose that’s both hilarious and compassionate.”—NPR “[A] fantastic page-turner . . . starts out like a simple bit of fun and winds up feeling like a rich and plausible picture of future friendships in a world not too distant from our own.”—iO9

Reversing - Eldad Eilam 2011-12-12

Beginning with a basic primer on reverse engineering-including computer internals, operating systems, and assembly language-and then discussing the various applications of reverse engineering, this book provides readers with practical, in-depth techniques for software reverse engineering. The book is broken into two parts, the first deals with security-related reverse engineering and the second explores the more practical aspects of reverse engineering. In addition, the author explains how to reverse engineer a third-party software library to improve interfacing and how to reverse engineer a competitor's software to build a better product. * The first popular book to show how software reverse engineering can help defend against security threats, speed up development, and unlock the secrets of competitive products * Helps developers plug security holes by demonstrating how hackers exploit reverse

engineering techniques to crack copy-protection schemes and identify software targets for viruses and other malware * Offers a primer on advanced reverse-engineering, delving into "disassembly"-code-level reverse engineering-and explaining how to decipher assembly language

The Death of Expertise - Tom Nichols 2017-02-01
Technology and increasing levels of education have exposed people to more information than ever before. These societal gains, however, have also helped fuel a surge in narcissistic and misguided intellectual egalitarianism that has crippled informed debates on any number of issues. Today, everyone knows everything: with only a quick trip through WebMD or Wikipedia, average citizens believe themselves to be on an equal intellectual footing with doctors and diplomats. All voices, even the most ridiculous, demand to be taken with equal seriousness, and any claim to the contrary is dismissed as undemocratic elitism. Tom Nichols' The Death of Expertise shows how this rejection of experts has occurred: the openness of the internet, the emergence of a customer satisfaction model in higher education, and the transformation of the news industry into a 24-hour entertainment machine, among other reasons. Paradoxically, the increasingly democratic dissemination of information, rather than producing an educated public, has instead created an army of ill-informed and angry citizens who denounce intellectual achievement. When ordinary citizens believe that no one knows more than anyone else, democratic institutions themselves are in danger of falling either to populism or to technocracy or, in the worst case, a combination of both. An update to the 2017breakout hit, the paperback edition of The Death of Expertise provides a new foreword to cover the alarming exacerbation of these trends in the aftermath of Donald Trump's election. Judging from events on the ground since it first published, The Death of Expertise issues a warning about the stability and survival of modern democracy in the Information Age that is even more important today.

Web Scraping with Python - Ryan Mitchell 2015-06-15
Learn web scraping and crawling techniques to access unlimited data from any web source in any format. With this practical guide, you'll learn how to use Python scripts and web APIs to gather and process data from thousands—or even millions—of web pages at once. Ideal for programmers, security professionals, and web administrators familiar with Python, this book not only teaches basic web scraping mechanics, but also delves into more advanced topics, such as analyzing raw data or using scrapers for frontend website testing. Code samples are available to help you understand the concepts in practice. Learn how to parse complicated HTML pages Traverse multiple pages and sites Get a general overview of APIs and how they work Learn several methods for storing the data you scrape Download, read, and extract data from documents Use tools and techniques to clean badly formatted data Read and write natural languages Crawl through forms and logins Understand how to scrape JavaScript Learn image processing and text recognition

2006 IEEE Symposium on Security and Privacy : (S & P 2006) : Proceedings : 21-24 May, 2006, Berkeley/Oakland, California - IEEE Symposium on Security and Privacy 2006

Cyber Security: Issues and Current Trends - Nitul Dutta 2021-10-30
This book presents various areas related to cybersecurity. Different techniques and tools used by cyberattackers to exploit a system are thoroughly discussed and analyzed in their respective chapters. The content of the book provides an intuition of various issues and challenges of cybersecurity that can help readers to understand and have awareness about it. It starts with a very basic introduction of security, its varied domains, and its implications in any working organization; moreover, it will talk about the risk factor of various attacks and threats. The concept of privacy and anonymity has been taken into consideration in consecutive chapters. Various topics including, The

Onion Router (TOR) and other anonymous services, are precisely discussed with a practical approach. Further, chapters to learn the importance of preventive measures such as intrusion detection system (IDS) are also covered. Due to the existence of severe cyberattacks, digital forensics is a must for investigating the crime and to take precautionary measures for the future occurrence of such attacks. A detailed description of cyberinvestigation is covered in a chapter to get readers acquainted with the need and demands. This chapter deals with evidence collection from the victim's device and the system that has importance in the context of an investigation. Content covered in all chapters is foremost and reported in the current trends in several journals and cybertalks. The proposed book is helpful for any reader who is using a computer or any such electronic gadget in their daily routine. The content of the book is prepared to work as a resource to any undergraduate and graduate-level student to get aware about the concept of cybersecurity, various cyberattacks, and threats in the security. In addition to that, it aimed at assisting researchers and developers to build a strong foundation for security provisioning in any newer technology which they are developing.

Leading in the Digital World - Amit S. Mukherjee 2020-02-25

The definitive book on leadership in the digital era: why digital technologies call for leadership that emphasizes creativity, collaboration, and inclusivity. Certain ideas about business leadership are held to be timeless, and certain characteristics of leaders—often including a square jaw, a deep voice, and extroversion—are said to be universal. In Leading in the Digital World, Amit Mukherjee argues that since digital technologies are changing everything else, how could they not change leadership ideologies and styles? As more people worldwide participate equally in business, those assumptions of a leader's ideal profile have become irrelevant. Offering a radical rethinking of leadership, Mukherjee shows why digital technologies call for a new kind of leader—one who emphasizes creativity, collaboration, and inclusivity. Drawing on a global survey of 700 mid-tier to senior executives and interviews with C-level executives from around the world, Mukherjee explains how digital technologies are already reshaping organizations and work and what this means for leaders. For example, globally dispersed businesses can't reserve key leadership roles for people from exclusive groups; leadership must become inclusive, or fail. Leaders must learn to collaborate in a multipolar world of networked organizations, working with co-located and non-co-located colleagues. Leaders must lead for creativity rather than productivity. Focusing on practice, Mukherjee outlines goals and strategies, warns against unthinking assumptions, and explains how leaders can identify the mindsets, behaviors, and actions they need to pursue. With Leading in the Digital World, Mukherjee offers the definitive book on leadership for the digital era.

Tor - Bruce Rogers 2017-02-14

Access The Deep Web Safely and Anonymously Using TOR in Only 24 Hours Imagine if you had unrestricted access and ability to browse the deep web and its hidden secrets. What if you could be invisible online and had the power to go beyond the deep web and into the dark net? Bestselling author, Bruce Rogers, will teach you the secrets to TOR browsing and help you discover the other 99% of the Internet that you never knew existed. In this book you'll learn: How to browse the deep web without getting yourself into trouble Why the deep web exists and the secrets that lie within it How and what law enforcement is using TOR for How to legally navigate through the dark net and its markets The power of cryptocurrencies and anonymity online And much much more Buy this book NOW to access the deep web safely and anonymously using TOR in only 24hours!

Malware Analyst's Cookbook and DVD - Michael Ligh 2010-09-29

A computer forensics "how-to" for fighting malicious

code andanalyzing incidents With our ever-increasing reliance on computers comes anever-growing risk of malware. Security professionals will findplenty of solutions in this book to the problems posed by viruses,Trojan horses, worms, spyware, rootkits, adware, and other invasivesoftware. Written by well-known malware experts, this guide revealssolutions to numerous problems and includes a DVD of customprograms and tools that illustrate the concepts, enhancing yourskills. Security professionals face a constant battle against maliciousssoftware; this practical manual will improve your analyticalcapabilities and provide dozens of valuable and innovativesolutions Covers classifying malware, packing and unpacking, dynamicmalware analysis, decoding and decrypting, rootkit detection,memory forensics, open source malware research, and much more Includes generous amounts of source code in C, Python, and Perlto extend your favorite tools or build new ones, and customprograms on the DVD to demonstrate the solutions Malware Analyst's Cookbook is indispensible to ITsecurity administrators, incident responders, forensic analysts,and malware researchers.

Web Information Systems Engineering -- WISE 2018 - Hakim Hacid 2018

The two-volume set LNCS 11233 and LNCS 11234 constitutes the proceedings of the 19th International Conference on Web Information Systems Engineering, WISE 2018, held in Dubai, United Arab Emirates, in November 2018. The 48 full papers and 21 short papers presented were carefully reviewed and selected from 209 submissions. The papers are organized in topical sections on blockchain, security, social network and security, social network, microblog data analysis, graph data, information extraction, text mining, recommender systems, medical data analysis, Web services and cloud computing, data stream and distributed computing, data mining techniques, entity linkage and semantics, Web applications, and data mining applications.

Dark Web Investigation - Babak Akhgar 2021-01-19

This edited volume explores the fundamental aspects of the dark web, ranging from the technologies that power it, the cryptocurrencies that drive its markets, the criminalities it facilitates to the methods that investigators can employ to master it as a strand of open source intelligence. The book provides readers with detailed theoretical, technical and practical knowledge including the application of legal frameworks. With this it offers crucial insights for practitioners as well as academics into the multidisciplinary nature of dark web investigations for the identification and interception of illegal content and activities addressing both theoretical and practical issues.

The UNIX-haters Handbook - Simson Garfinkel 1994

This book is for all people who are forced to use UNIX. It is a humorous book--pure entertainment--that maintains that UNIX is a computer virus with a user interface. It features letters from the thousands posted on the Internet's "UNIX-Haters" mailing list. It is not a computer handbook, tutorial, or reference. It is a self-help book that will let readers know they are not alone.

Silk Road - Eileen Ormsby 2014-11-01

It was the 'eBay of drugs', a billion dollar empire. Behind it was the FBI's Most Wanted Man, a mysterious crime czar dubbed 'Dread Pirate Roberts'. SILK ROAD lay at the heart of the 'Dark Web' - a parallel internet of porn, guns, assassins and drugs. Lots of drugs. With the click of a button LSD, heroin, meth, coke, any illegal drug imaginable, would wing its way by regular post from any dealer to any user in the world. How was this online drug cartel even possible? And who was the mastermind all its low roads led to? This is the incredible true story of Silk Road's rise and fall, told with unparalleled insight into the main players - including alleged founder and kingpin Dread Pirate Roberts himself - by lawyer and investigative journalist Eileen Ormsby. A stunning crime story with a truth that explodes off the page.