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A practical guide to testing your infrastructure security with Kali Linux, the preferred choice of pentesters and hackers Key FeaturesEmploy advanced pentesting techniques with Kali Linux to build highly secured systemsDiscover various stealth techniques to remain undetected and defeat modern infrastructuresExplore red teaming techniques to exploit secured environmentBook Description This book takes you, as a tester or security practitioner, through the reconnaissance, vulnerability assessment, exploitation, privilege escalation, and post-exploitation activities used by pentesters. To start with, you'll use a laboratory environment to validate tools and techniques, along with an application that supports a collaborative approach for pentesting. You'll then progress to passive reconnaissance with open source intelligence and active reconnaissance of the external and internal infrastructure. You'll also focus on how to select, use, customize, and interpret the results from different vulnerability scanners, followed by examining specific routes to the target, which include bypassing physical security and the exfiltration of data using a variety of techniques. You'll discover concepts such as social engineering, attacking wireless networks, web services, and embedded devices. Once you are confident with these topics, you'll learn the practical aspects of attacking user client systems by backdooring with fileless techniques, followed by focusing on the most vulnerable part of the network – directly attacking the end user. By the end of this book, you'll have explored approaches for carrying out advanced pentesting in tightly secured environments, understood pentesting and hacking techniques employed on embedded peripheral devices. What you will learnConfigure the most effective Kali Linux tools to test infrastructure securityEmploy stealth to avoid detection in the infrastructure being testedRecognize when stealth attacks are being used against your infrastructureExploit networks and data systems using wired and wireless networks as well as web servicesIdentify and download valuable data from target systemsMaintain access to compromised systemsUse social engineering to compromise the weakest part of the network - the end usersWho this book is for This third edition of Mastering Kali Linux for Advanced Penetration Testing is for you if you are a security analyst, pentester, ethical hacker, IT professional, or security consultant wanting to maximize the success of your infrastructure testing using some of the advanced features of Kali Linux. Prior exposure of penetration testing and ethical hacking basics will be helpful in making the most out of this book. Python’s simplicity lets you become productive quickly, but this often means you aren’t using everything it has to offer. With this hands-on guide, you’ll learn how to write effective, idiomatic Python code by leveraging its best—and possibly most neglected—features. Author Luciano Ramalho takes you through Python’s core language features and libraries, and shows you how to make your code shorter, faster, and more readable at the same time. Many experienced programmers try to bend Python to fit patterns they learned from other languages, and never discover Python features outside of their experience. With this book, those Python programmers will thoroughly learn how to become proficient in Python 3. This book covers: Python data model: understand how special methods are the key to the consistent behavior of objects Data structures: take full advantage of built-in types, and understand the text vs bytes duality in the Unicode age Functions as objects: view Python functions as first-class objects, and understand how this affects popular design patterns Object-oriented idioms: build classes by learning about references, mutability, interfaces, operator overloading, and multiple inheritance Control flow: leverage context managers, generators,

coroutines, and concurrency with the concurrent.futures and asyncio packages Metaprogramming: understand how properties, attribute descriptors, class decorators, and metaclasses work In this brilliant collection, the follow-up to her New York Times bestseller Reading Like a Writer, the distinguished novelist, literary critic, and essayist celebrates the pleasures of reading and pays homage to the works and writers she admires above all others, from Jane Austen and Charles Dickens to Jennifer Egan and Roberto Bolaño. In an age defined by hyper-connectivity and constant stimulation, Francine Prose makes a compelling case for the solitary act of reading and the great enjoyment it brings. Inspiring and illuminating, What to Read and Why includes selections culled from Prose's previous essays, reviews, and introductions, combined with new, never-before-published pieces that focus on her favorite works of fiction and nonfiction, on works by masters of the short story, and even on books by photographers like Diane Arbus. Prose considers why the works of literary masters such as Mary Shelley, Charles Dickens, George Eliot, and Jane Austen have endured, and shares intriguing insights about modern authors whose words stimulate our minds and enlarge our lives, including Roberto Bolaño, Karl Ove Knausgaard, Jennifer Egan, and Mohsin Hamid. Prose implores us to read Mavis Gallant for her marvelously rich and compact sentences, and her meticulously rendered characters who reveal our flawed and complex human nature; Edward St. Aubyn for his elegance and sophisticated humor; and Mark Strand for his gift for depicting unlikely transformations. Here, too, are original pieces in which Prose explores the craft of writing: "On Clarity" and "What Makes a Short Story." Written with her sharp critical analysis, wit, and enthusiasm, What to Read and Why is a celebration of literature that will give readers a new appreciation for the power and beauty of the written word. Solve challenging data science problems by mastering cutting-edge machine learning techniques in Python About This Book Resolve complex machine learning problems and explore deep learning Learn to use Python code for implementing a range of machine learning algorithms and techniques A practical tutorial that tackles real-world computing problems through a rigorous and effective approach Who This Book Is For This title is for Python developers and analysts or data scientists who are looking to add to their existing skills by accessing some of the most powerful recent trends in data science. If you've ever considered building your own image or text-tagging solution, or of entering a Kaggle contest for instance, this book is for you! Prior experience of Python and grounding in some of the core concepts of machine learning would be helpful. What You Will Learn Compete with top data scientists by gaining a practical and theoretical understanding of cutting-edge deep learning algorithms Apply your new found skills to solve real problems, through clearly-explained code for every technique and test Automate large sets of complex data and overcome time-consuming practical challenges Improve the accuracy of models and your existing input data using powerful feature engineering techniques Use multiple learning techniques together to improve the consistency of results Understand the hidden structure of datasets using a range of unsupervised techniques Gain insight into how the experts solve challenging data problems with an effective, iterative, and validation-focused approach Improve the effectiveness of your deep learning models further by using powerful ensembling techniques to strap multiple models together In Detail Designed to take you on a guided tour of the most relevant and powerful machine learning techniques in use today by top data scientists, this book is just what you need to push your Python algorithms to maximum potential. Clear examples and detailed code samples demonstrate deep learning techniques, semi-supervised learning, and more - all whilst working with real-world applications that include image, music, text, and financial data. The machine learning techniques covered in this book are at the forefront of commercial practice. They are applicable now for the first time in contexts such as image recognition, NLP and web search, computational creativity, and commercial/financial data modeling. Deep Learning algorithms and ensembles of models are in use by data scientists at top tech and digital companies, but the skills needed to apply them successfully, while in high demand, are still scarce. This book is designed to take the reader on a guided tour of the most relevant and powerful machine learning techniques. Clear descriptions of how techniques work and detailed code examples demonstrate deep learning techniques, semi-supervised learning and more, in real world applications. We will also learn about NumPy and Theano. By this end of this book, you will learn a set of advanced Machine Learning techniques and acquire a broad set of powerful skills in the area of feature selection & feature engineering. Style and approach This book focuses on clarifying the theory and code behind complex algorithms to make them practical, useable, and well-understood. Each topic is described with real-world applications, providing both broad contextual coverage and detailed guidance. Cutting-edge techniques for finding and fixing critical security flaws Fortify your network and avert digital catastrophe with proven strategies from a team of security experts. Completely updated and featuring 13 new chapters, Gray Hat Hacking, The Ethical Hacker's Handbook, Fifth Edition explains the enemy's current weapons, skills, and tactics and offers field-tested remedies, case studies, and ready-to-try testing labs. Find out how hackers gain access, overtake network devices, script and inject malicious code, and plunder Web applications and browsers. Android-based exploits, reverse engineering techniques, and cyber law are thoroughly covered in this state-of-the-art resource. And the new topic of exploiting the Internet of things is introduced in this edition. •Build and launch spoofing exploits with Ettercap •Induce error conditions and crash software using fuzzers •Use advanced reverse engineering to exploit Windows and Linux software •Bypass Windows Access Control and memory protection schemes •Exploit web applications with Padding Oracle Attacks •Learn the use-after-free technique used in recent zero days •Hijack web browsers with advanced XSS attacks •Understand ransomware and how it takes control of your desktop •Dissect Android malware with JEB and DAD decompilers •Find one-day vulnerabilities with binary diffing •Exploit wireless systems with Software Defined Radios (SDR) •Exploit Internet of things devices •Dissect and exploit embedded devices •Understand bug bounty programs •Deploy next-generation honeypots •Dissect ATM malware and analyze common ATM attacks •Learn the business side of ethical hacking Take the guesswork out of using regular expressions. With more than 140 practical recipes, this cookbook provides everything you need to solve a wide range of real-world problems. Novices will learn basic skills and tools, and programmers and experienced users will find a wealth of detail. Each recipe provides samples you can use right away. This revised edition covers the regular expression flavors used by C#, Java, JavaScript, Perl, PHP, Python, Ruby, and VB.NET. You'll learn powerful new tricks, avoid flavor-specific gotchas, and save valuable time with this huge library of practical solutions. Learn regular expressions basics through a detailed tutorial Use code listings to implement regular expressions with your language of choice Understand how regular expressions differ from language to language Handle common user input with recipes for validation and formatting Find and manipulate words, special characters, and lines of text Detect integers, floating-point numbers, and other numerical formats Parse source code and process log files Use regular expressions in URLs, paths, and IP addresses Manipulate HTML, XML, and data exchange formats Discover little-known regular expression tricks and techniques The "Be Developer's Guide" and "Be Advanced Topics" are the official programmer's reference manuals for the BeOS, a revolutionary new operating system built around multimedia, threading, and multiprocessing. "Be Developer's Guide" includes the BeOS on CD-ROM. "Be Advanced Topics" includes the "Be-Specific" CD-ROM, from Adamation, containing a variety of tools, applications and freeware designed specifically for the Be platform. New Zealand's deceptively simple but effective program to improve public services New Zealand has long been considered at the forefront of public administration, experimenting with new ways of organizing and delivering public services. Even so, successive New Zealand governments had mixed results from using traditional public management tools to lift the performance of the public service and address persistent problems that required multi-agency action. In 2012 the government decided to try something different. As part of a reform package called Better Public Services, the government challenged the public service to organize itself around achieving just ten results that had proven resistant to previous interventions. The plan was deceptively simple: set ambitious targets and publicly report on progress every six months; hold small groups of public managers collectively responsible; use lead indicators; and learn from both success and failure. This book explores how and why the New Zealand government made progress and how the program was able to create and sustain the commitment of public servants and unleash the creativity of public entrepreneurs. The authors combine case studies based on the experience of people involved in the change, together with public management research. They explain how ambitious targets and public accountability were used as levers to overcome the bureaucratic barriers that impeded public service delivery, and how data, evidence, and innovation were used to change practice. New Zealand experimented, failed, succeeded, and learned from the experience over five years. This New Zealand experience demonstrates that interagency performance targets are a potentially powerful tool for fostering better public services and thus improving social outcomes. 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 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. This text introduces the spirit and theory of hacking as well as the science behind it all; it also provides some core techniques and tricks of hacking so you can think like a hacker, write your own hacks or thwart potential system attacks. A hands-on guide to leveraging NoSQL databases NoSQL databases are an efficient and powerful tool for storing and manipulating vast quantities of data. Most NoSQL databases scale well as data grows. In addition, they are often malleable and flexible enough to accommodate semi-structured and sparse data sets. This comprehensive hands-on guide presents fundamental concepts and practical solutions for getting you ready to use NoSQL databases. Expert author Shashank Tiwari begins with a helpful introduction on the subject of NoSQL, explains its characteristics and typical uses, and looks at where it fits in the application stack. Unique insights help you choose which NoSQL solutions are best for solving your specific data storage needs. Professional NoSQL: Demystifies the concepts that relate to NoSQL databases, including column-family oriented stores, key/value databases, and document databases. Delves into installing and configuring a number of NoSQL products and the Hadoop family of products. Explains ways of storing, accessing, and querying data in NoSQL databases through examples that use MongoDB, HBase, Cassandra, Redis, CouchDB, Google App Engine Datastore and more. Looks at architecture and internals. Provides guidelines for optimal usage, performance tuning, and scalable configurations. Presents a number of tools and utilities relating to NoSQL, distributed platforms, and scalable processing, including Hive, Pig, RRDtool, Nagios, and more. Master Shellcode to leverage the buffer overflow concept Key Features Understand how systems can be bypassed both at the operating system and network level with shellcode, assembly, and Metasploit Learn to write and modify 64-bit shellcode along with kernel-level shellcode concepts A step-by-step guide that will take you from low-level security skills to covering loops with shellcode Book Description Security has always been a major concern for your application, your system, or your environment. This book's main goal is to build your skills for low-level security exploits, finding vulnerabilities and covering loopholes with shellcode, assembly, and Metasploit. This book will teach you topics ranging from memory management and assembly to compiling and extracting shellcode and using syscalls and dynamically locating functions in memory. This book also covers techniques to compile 64-bit shellcode for Linux and Windows along with Metasploit shellcode tools. Lastly, this book will also show you to how to write your own exploits with intermediate techniques, using real-world scenarios. By the end of this book, you will have become an expert in shellcode and will understand how systems are compromised both at the operating system and network level. What you will learn Create an isolated lab to test and inject shellcodes (Windows and Linux). Understand both Windows and Linux behavior. Learn the assembly programming language. Create shellcode using assembly and Metasploit. Detect buffer overflows. Debug and reverse-engineer using tools such as GDB, edb, and Immunity (Windows and Linux). Exploit development and shellcodes injections (Windows & Linux). Prevent and protect against buffer overflows and heap corruption. Who this book is for This book is intended to be read by penetration testers, malware analysts, security researchers, forensic practitioners, exploit developers, C language programmers, software testers, and students in the security field. Readers should have a basic understanding of OS internals (Windows and Linux). Some knowledge of the C programming language is essential, and a familiarity with the Python language would be helpful. This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Learn, prepare, and practice for CEH v8 exam success with this cert guide from Pearson IT Certification, a leader in IT certification learning. Master CEH exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks Certified Ethical Hacker (CEH) Cert Guide is a best-of-breed exam study guide. Leading security consultant and certification expert Michael Gregg shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. You'll get a complete test preparation routine organized around proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. This EC-Council authorized study guide helps you master all the topics on the CEH v8 (312-50) exam, including: Ethical hacking basics Technical foundations of hacking Footprinting and scanning Enumeration and system hacking Linux and automated assessment tools Trojans and backdoors Sniffers, session hijacking, and denial of service Web server hacking, web applications, and database attacks Wireless technologies, mobile security, and mobile attacks IDS, firewalls, and honeypots Buffer overflows, viruses, and worms Cryptographic attacks and defenses Physical security and social engineering The Metasploit Framework makes discovering, exploiting, and sharing vulnerabilities quick and relatively painless. But while Metasploit is used by security professionals everywhere, the tool can be hard to grasp for first-time users. Metasploit: The Penetration Tester's Guide fills this gap by teaching you how to harness the Framework and interact with the vibrant community of Metasploit contributors. Once you've built your foundation for penetration testing, you’ll learn the Framework's conventions, interfaces, and module system as you launch simulated attacks. You’ll move on to advanced penetration testing techniques, including network reconnaissance and enumeration, client-side attacks, wireless attacks, and targeted social-engineering attacks. Learn how to: –Find and exploit unmaintained, misconfigured, and unpatched systems –Perform reconnaissance and find valuable information about your target –Bypass anti-virus technologies and circumvent security controls –Integrate Nmap, NeXpose, and Nessus with Metasploit to automate discovery –Use the Meterpreter shell to launch further attacks from inside the network –Harness standalone Metasploit utilities, third-party tools, and plug-ins –Learn how to write your own Meterpreter post exploitation modules and scripts You'll even touch on exploit discovery for zero-day research, write a fuzzer, port existing exploits into the Framework, and learn how to cover your tracks. Whether your goal is to secure your own networks or to put someone else's to the test, Metasploit: The Penetration Tester's Guide will take you there and beyond. Why spend time on coding problems that others have already solved when you could be making real progress on your Ruby project? This updated cookbook provides more than 350 recipes for solving common problems, on topics ranging from basic data structures, classes, and objects, to web development, distributed programming, and multithreading. Revised for Ruby 2.1, each recipe includes a discussion on why and how the solution works. You’ll find recipes suitable for all skill levels, from Ruby newbies to experts who need an occasional reference. With Ruby Cookbook, you’ll not only save time, but keep your brain percolating with new ideas as well. Recipes cover: Data structures including strings, numbers, date and time, arrays, hashes, files and directories Using Ruby’s code blocks, also known as closures OOP features such as classes, methods,

objects, and modules XML and HTML, databases and persistence, and graphics and other formats Web development with Rails and Sinatra Internet services, web services, and distributed programming Software testing, debugging, packaging, and distributing Multitasking, multithreading, and extending Ruby with other languages This much-anticipated revision, written by the ultimate group of top security experts in the world, features 40 percent new content on how to find security holes in any operating system or application New material addresses the many new exploitation techniques that have been discovered since the first edition, including attacking "unbreakable" software packages such as McAfee's Entercept, Mac OS X, XP, Office 2003, and Vista Also features the first-ever published information on exploiting Cisco's IOS, with content that has never before been explored The companion Web site features downloadable code files 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 How do you take your data analysis skills beyond Excel to the next level? By learning just enough Python to get stuff done. This hands-on guide shows non-programmers like you how to process information that's initially too messy or difficult to access. You don't need to know a thing about the Python programming language to get started. Through various step-by-step exercises, you'll learn how to acquire, clean, analyze, and present data efficiently. You'll also discover how to automate your data process, schedule file- editing and clean-up tasks, process larger datasets, and create compelling stories with data you obtain. Quickly learn basic Python syntax, data types, and language concepts Work with both machine-readable and human-consumable data Scrape websites and APIs to find a bounty of useful information Clean and format data to eliminate duplicates and errors in your datasets Learn when to standardize data and when to test and script data cleanup Explore and analyze your datasets with new Python libraries and techniques Use Python solutions to automate your entire data-wrangling process For the first time, Monticello has an official guidebook that reflects the unique statesman and inventor Thomas Jefferson, his home, and his world. Showcasing the recent restoration of the home and plantation, it features information about the slaves of Mulberry Row, as well as the state-of-the-art visitor and education center. Each of the guide's 144 pages is designed to showcase the topics in its five chapters: Thomas Jefferson, Before Your Visit, The House, The Plantation, and the Neighborhood. Photographs, art and cutaways, and maps accompany featured stories both iconic and little-known from Monticello's curators. 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? "A fantastic book for anyone looking to learn the tools and techniques needed to break in and stay in." --Bruce Potter, Founder, The Shmoo Group "Very highly recommended whether you are a seasoned professional or just starting out in the security business." --Simple Nomad, Hacker How you can enrich your life by becoming a more skillful and engaged reader of literature We are what we read, according to Robert DiYanni. Reading may delight us or move us; we may read for instruction or inspiration. But more than this, in reading we discover ourselves. We gain access to the lives of others, explore the limitless possibilities of human existence, develop our understanding of the world around us, and find respite from the hectic demands of everyday life. In You Are What You Read, DiYanni provides a practical guide that shows how we can increase the benefits and pleasures of literature by becoming more skillful and engaged readers. DiYanni suggests that we attend first to what authors say and the way in which they say it, rather than rushing to decide what they mean. He considers the various forms of literature, from the essay to the novel, the short story to the poem, demonstrating rewarding approaches to each in sample readings of classic works. Through a series of illuminating oppositions, he explores the paradoxical pleasures of reading: solitary versus social reading, submitting to or resisting the author, reading inwardly or outwardly, and more. DiYanni closes with nine recommended reading practices, thoughts on the different experiences of print and digital reading, and advice on what to read and why. Written in a clear, inviting, and natural style, You Are What You Read is an essential guide for all who want to enrich their reading—and their life. A project-based, practical guide to get hands-on into Vue.js 2.5 development by building beautiful, functional and performant web applications About This Book Build exciting real world web projects from scratch and become proefficient with Vue.js Web Development Take your app to the next level with animation, routing, state management, server-side rendering and i18n Learn professional web programming techniques to supercharge your Vue.js projects Who This Book Is For If you are a web developer who now wants to create rich and interactive professional applications using Vue.js, then this book is for you. Prior knowledge of JavaScript is assumed. Familiarity with HTML, Node.js, and tools such as npm and webpack will be helpful but not necessary. What You Will Learn Set up a full Vue.js npm project with the webpack build tool and the official scaffolding tool, vue-cli Write automatically updated templates with directives to create a dynamic web application Structure the app with reusable and maintainable components Create delightful user experiences with animations Use build tools and preprocessor to make larger professional applications Create a multi-page application with the official Vue.js routing library Integrate non-Vue.js elements into your apps like Google Maps Use the official state-management library to prevent errors Optimize your app for SEO and performance with server-side rendering and internationalization In Detail Do you want to make your web application amazingly responsive? Are you unhappy with your app's performance and looking forward to trying out ways to make your app more powerful? Then Vue.js, a framework for building user interfaces, is a great choice, and this book is the ideal way to put it through its paces. This book's project-based approach will get you to build six stunning applications from scratch and gain valuable insights in Vue.js 2.5. You'll start by learning the basics of Vue.js and create your first web app using directives along with rich and attractive user experiences. You will learn about animations and interactivity by creating a browser-based game. Using the available tools and preprocessor, you will learn how to create multi-page apps with plugins. You will create highly efficient and performant functional components for your app. Next, you will create your own online store and optimize it. Finally, you will integrate Vue.js with the real-time Meteor library and create a dashboard showing real-time data. By the end of this book you will have enough skills and will have worked through enough examples of real Vue.js projects to create interactive professional web applications with Vue.js 2.5. Style and approach Project-based guide that will help you start building applications immediately with an easy to follow approach. Our book will have 6 concrete projects. It will take readers through clear and logical steps, with screenshots and tips along the way to help you follow the guide and learn how to get more from Vue.js. Today's businesses, applications, social media, and online transactions generate more data than ever before. This data can be explored and analyzed to provide tremendous business value. IBM® WatsonTM Explorer and IBM InfoSphere® Master Data Management (InfoSphere MDM) enable organizations to simultaneously explore and derive insights from enterprise data that was traditionally stored in "silos" in enterprise applications, different data repositories, and in different data formats. This IBM Redbooks® publication provides information about Watson Explorer 9.0, InfoSphere MDM, and IBM InfoSphere MDM Probabilistic Matching Engine for InfoSphere BigInsightsTM (PME for BigInsights). It gives you an overview, describes the architecture, and presents use cases that you can use to accomplish the following tasks: Understand the core capabilities of Watson Explorer, InfoSphere MDM,

and PME for BigInsights. Realize the full potential of Watson Explorer applications. Describe the integration and value of the combination of Watson Explorer and InfoSphere MDM. Build a 360-degree information application. Learn by example by following hands-on lab scenarios. /ul> If you're looking to make a career move from programmer to AI specialist, this is the ideal place to start. Based on Laurence Moroney's extremely successful AI courses, this introductory book provides a hands-on, code-first approach to help you build confidence while you learn key topics. You'll understand how to implement the most common scenarios in machine learning, such as computer vision, natural language processing (NLP), and sequence modeling for web, mobile, cloud, and embedded runtimes. Most books on machine learning begin with a daunting amount of advanced math. This guide is built on practical lessons that let you work directly with the code. You'll learn: How to build models with TensorFlow using skills that employers desire The basics of machine learning by working with code samples How to implement computer vision, including feature detection in images How to use NLP to tokenize and sequence words and sentences Methods for embedding models in Android and iOS How to serve models over the web and in the cloud with TensorFlow Serving Python is an easy to learn, powerful programming language. It has efficient high-level data structures and a simple but effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas on most platforms. The Python interpreter and the extensive standard library are freely available in source or binary form for all major platforms from the Python Web site, https: //www.python.org/, and may be freely distributed. The same site also contains distributions of and pointers to many free third party Python modules, programs and tools, and additional documentation. The Python interpreter is easily extended with new functions and data types implemented in C or C++ (or other languages callable from C). Python is also suitable as an extension language for customizable applications. This tutorial introduces the reader informally to the basic concepts and features of the python language and system. It helps to have a Python interpreter handy for hands-on experience, but all examples are self contained, so the tutorial can be read off-line as well. For a description of standard objects and modules, see library-index. reference-index gives a more formal definition of the language. To write extensions in C or C++, read extending-index and c-api-index. There are also several books covering Python in depth. This tutorial does not attempt to be comprehensive and cover every single feature, or even every commonly used feature. Instead, it introduces many of Python's most noteworthy features, and will give you a good idea of the language's flavor and style. After reading it, you will be able to read and write Python modules and programs, and you will be ready to learn more about the various Python library modules described in library-index. The Glossary is also worth going through. The Metasploit Framework makes discovering, exploiting, and sharing vulnerabilities quick and relatively painless. But while Metasploit is used by security professionals everywhere, the tool can be hard to grasp for first-time users. Metasploit: The Penetration Tester's Guide fills this gap by teaching you how to harness the Framework and interact with the vibrant community of Metasploit contributors. Once you've built your foundation for penetration testing, you'll learn the Framework's conventions, interfaces, and module system as you launch simulated attacks. You'll move on to advanced penetration testing techniques, including network reconnaissance and enumeration, client-side attacks, wireless attacks, and targeted social-engineering attacks. Learn how to: –Find and exploit unmaintained, misconfigured, and unpatched systems –Perform reconnaissance and find valuable information about your target –Bypass anti-virus technologies and circumvent security controls –Integrate Nmap, NeXpose, and Nessus with Metasploit to automate discovery –Use the Meterpreter shell to launch further attacks from inside the network –Harness standalone Metasploit utilities, third-party tools, and plug-ins –Learn how to write your own Meterpreter post exploitation modules and scripts You'll even touch on exploit discovery for zero-day research, write a fuzzer, port existing exploits into the Framework, and learn how to cover your tracks. Whether your goal is to secure your own networks or to put someone else's to the test, Metasploit: The Penetration Tester's Guide will take you there and beyond. The SANS Institute maintains a list of the "Top 10 Software Vulnerabilities." At the current time, over half of these vulnerabilities are exploitable by Buffer Overflow attacks, making this class of attack one of the most common and most dangerous weapon used by malicious attackers. This is the first book specifically aimed at detecting, exploiting, and preventing the most common and dangerous attacks. Buffer overflows make up one of the largest collections of vulnerabilities in existence; And a large percentage of possible remote exploits are of the overflow variety. Almost all of the most devastating computer attacks to hit the Internet in recent years including SQL Slammer, Blaster, and I Love You attacks. If executed properly, an overflow vulnerability will allow an attacker to run arbitrary code on the victim's machine with the equivalent rights of whichever process was overflowed. This is often used to provide a remote shell onto the victim machine, which can be used for further exploitation. A buffer overflow is an unexpected behavior that exists in certain programming languages. This book provides specific, real code examples on exploiting buffer overflow attacks from a hacker's perspective and defending against these attacks for the software developer. Over half of the "SANS TOP 10 Software Vulnerabilities" are related to buffer overflows. None of the current-best selling software security books focus exclusively on buffer overflows. This book provides specific, real code examples on exploiting buffer overflow attacks from a hacker's perspective and defending against these attacks for the software developer. A literary critic's journey through the Talmud. Spurred by a curiosity about Daf Yomi--a study program launched in the 1920s in which Jews around the world read one page of the Talmud every day for 2,711 days, or about seven and a half years--Adam Kirsch approached Tablet magazine to write a weekly column about his own Daf Yomi experience. An avowedly secular Jew, Kirsch did not have a religious source for his interest in the Talmud; rather, as a student of Jewish literature and history, he came to realize that he couldn't fully explore these subjects without some knowledge of the Talmud. This book is perfect for readers who are in a similar position. Most people have little sense of what the Talmud actually is--how the text moves, its preoccupations and insights, and its moments of strangeness and profundity. As a critic and journalist Kirsch has experience in exploring difficult texts, discussing what he finds there, and why it matters. His exploration into the Talmud is best described as a kind of travel writing--a report on what he saw during his seven-and-a-half-year journey through the Talmud. For readers who want to travel that same path, there is no better guide. Over 120 recipes to perform advanced penetration testing with Kali Linux About This Book Practical recipes to conduct effective penetration testing using the powerful Kali Linux Leverage tools like Metasploit, Wireshark, Nmap, and many more to detect vulnerabilities with ease Confidently perform networking and application attacks using task-oriented recipes Who This Book Is For This book is aimed at IT security professionals, pentesters, and security analysts who have basic knowledge of Kali Linux and want to conduct advanced penetration testing techniques. What You Will Learn Installing, setting up and customizing Kali for pentesting on multiple platforms Pentesting routers and embedded devices Bug hunting 2017 Pwning and escalating through corporate network Buffer overflows 101 Auditing wireless networks Fiddling around with software-defned radio Hacking on the run with NetHunter Writing good quality reports In Detail With the current rate of hacking, it is very important to pentest your environment in order to ensure advanced-level security. This book is packed with practical recipes that will quickly get you started with Kali Linux (version 2016.2) according to your needs, and move on to core functionalities. This book will start with the installation and configuration of Kali Linux so that you can perform your tests. You will learn how to plan attack strategies and perform web application exploitation using tools such as Burp, and Jexboss. You will also learn how to perform network exploitation using Metasploit, Sparta, and Wireshark. Next, you will perform wireless and password attacks using tools such as Patator, John the Ripper, and airoscript-ng. Lastly, you will learn how to create an optimum quality pentest report! By the end of this book, you will know how to conduct advanced penetration testing thanks to the book's crisp and task-oriented recipes. Style and approach This is a recipe-based book that allows you to venture into some of the most cutting-edge practices and techniques to perform penetration testing with Kali Linux. Untangle your web scraping complexities and access web data with ease using Python scripts Key Features Hands-on recipes for advancing your web scraping skills to expert level One-stop solution guide to address complex and challenging web scraping tasks using Python Understand web page structures and collect data from a website with ease Book Description Python Web Scraping Cookbook is a solution-focused book that will teach you techniques to develop high-performance Scrapers, and deal with cookies, hidden form fields, Ajax-based sites and proxies. You'll explore a number of real-world scenarios where every part of the development or product life cycle will be fully covered. You will not only develop the skills to design reliable, high-performing data flows, but also deploy your codebase to Amazon Web Services (AWS). If you

are involved in software engineering, product development, or data mining or in building data-driven products, you will find this book useful as each recipe has a clear purpose and objective. Right from extracting data from websites to writing a sophisticated web crawler, the book's independent recipes will be extremely helpful while on the job. This book covers Python libraries, requests, and BeautifulSoup. You will learn about crawling, web spidering, working with AJAX websites, and paginated items. You will also understand to tackle problems such as 403 errors, working with proxy, scraping images, and LXML. By the end of this book, you will be able to scrape websites more efficiently and deploy and operate your scraper in the cloud. What you will learn Use a variety of tools to scrape any website and data, including Scrapy and Selenium Master expression languages, such as XPath and CSS, and regular expressions to extract web data Deal with scraping traps such as hidden form fields, throttling, pagination, and different status codes Build robust scraping pipelines with SQS and RabbitMQ Scrape assets like image media and learn what to do when Scraper fails to run Explore ETL techniques of building a customized crawler, parser, and convert structured and unstructured data from websites Deploy and run your scraper as a service in AWS Elastic Container Service Who this book is for This book is ideal for Python programmers, web administrators, security professionals, and anyone who wants to perform web analytics. Familiarity with Python and basic understanding of web scraping will be useful to make the best of this book. An invaluable, step-by-step guide to data management in R for social science researchers. This book will show you how to recode data, combine data from different sources, document data, and import data from statistical packages other than R. It explores both qualitative and quantitative data and is packed with a range of supportive learning features such as code examples, overview boxes, images, tables, and diagrams. Easy to understand and fun to read, this updated edition of Introducing Python is ideal for beginning programmers as well as those new to the language. Author Bill Lubanovic takes you from the basics to more involved and varied topics, mixing tutorials with cookbook-style code recipes to explain concepts in Python 3. End-of-chapter exercises help you practice what you've learned. You'll gain a strong foundation in the language, including best practices for testing, debugging, code reuse, and other development tips. This book also shows you how to use Python for applications in business, science, and the arts, using various Python tools and open source packages. Whether you're a novice or an advanced practitioner, you'll find this refreshed book more than lives up to its reputation. Programming Python, Third Edition teaches you the right way to code. It explains Python language syntax and programming techniques in a clear and concise manner, with numerous examples that illustrate both correct usage and common idioms. By reading this comprehensive guide, you'll learn how to apply Python in real-world problem domains such as: The politics; laws of security; classes of attack; methodology; diffing; decrypting; brute force; unexpected input; buffer overrun; sniffing; session hijacking; spoofing; server holes; client holes; trojans and viruses; reporting security problems; choosing secure systems. Get complete coverage of all the objectives included on the EC-Council's Certified Ethical Hacker exam inside this comprehensive resource. Written by an IT security expert, this authoritative guide covers the vendor-neutral CEH exam in full detail. You'll find learning objectives at the beginning of each chapter, exam tips, practice exam questions, and in-depth explanations. Designed to help you pass the exam with ease, this definitive volume also serves as an essential on-the-job reference. COVERS ALL EXAM TOPICS, INCLUDING: Introduction to ethical hacking Cryptography Reconnaissance and footprinting Network scanning Enumeration System hacking Evasion techniques Social engineering and physical security Hacking web servers and applications SQL injection Viruses, trojans, and other attacks Wireless hacking Penetration testing CD-ROM FEATURES: Two practice exams PDF copy of the book Bonus appendix with author's recommended tools, sites, and references Matt Walker, CEHv7, CPTS, CNDA, CCNA, MCSE, has held a wide variety of IT security teaching, writing, and leadership roles, including director of the Network Training Center on Ramstein AB, Germany, and IT security manager for Lockheed Martin at Kennedy Space Center. He is currently a security engineer for Hewlett-Packard.