

Offensive Security Web Expert Oswe Certification

100% coverage of every objective for the EC-Council's Certified Chief Information Security Officer exam Take the challenging CCISO exam with confidence using the comprehensive information contained in this effective study guide. CCISO Certified Chief Information Security Officer All-in-One Exam Guide provides 100% coverage of all five CCISO domains. Each domain is presented with information mapped to the 2019 CCISO Blueprint containing the exam objectives as defined by the CCISO governing body, the EC-Council. For each domain, the information presented includes: background information; technical information explaining the core concepts; peripheral information intended to support a broader understating of the domain; stories, discussions, anecdotes, and examples providing real-world context to the information. • Online content includes 300 practice questions in the customizable Total Tester exam engine • Covers all exam objectives in the 2019 EC-Council CCISO Blueprint • Written by information security experts and experienced CISOs

Microsoft Windows 7 Administrators Reference covers various aspects of Windows 7 systems, including its general information as well as

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installation and upgrades. This reference explains how to deploy, use, and manage the operating system. The book is divided into 10 chapters. Chapter 1 introduces the Windows 7 and the rationale of releasing this operating system. The next chapter discusses how an administrator can install and upgrade the old operating system from Windows Vista to Windows 7. The deployment of Windows 7 in an organization or other environment is then explained. It also provides the information needed to deploy Windows 7 easily and quickly for both the administrator and end users. Furthermore, the book provides the features of Windows 7 and the ways to manage it properly. The remaining chapters discuss how to secure Windows 7, as well as how to troubleshoot it. This book will serve as a reference and guide for those who want to utilize Windows 7. Covers Powershell V2, Bitlocker, and mobility issues Includes comprehensive details for configuration, deployment, and troubleshooting Consists of content written for system administrators by system administrators

There is nothing like the power of the kernel in Windows - but how do you write kernel drivers to take advantage of that power? This book will show you how. The book describes software kernel drivers programming for Windows. These drivers don't deal with hardware, but rather with the system itself: processes, threads, modules, registry and more.

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Kernel code can be used for monitoring important events, preventing some from occurring if needed. Various filters can be written that can intercept calls that a driver may be interested in.

An immersive learning experience enhanced with technical, hands-on labs to understand the concepts, methods, tools, platforms, and systems required to master the art of cybersecurity

Key Features

- Get hold of the best defensive security strategies and tools
- Develop a defensive security strategy at an enterprise level
- Get hands-on with advanced cybersecurity threat detection, including XSS, SQL injections, brute forcing web applications, and more

Book Description

Every organization has its own data and digital assets that need to be protected against an ever-growing threat landscape that compromises the availability, integrity, and confidentiality of crucial data. Therefore, it is important to train professionals in the latest defensive security skills and tools to secure them. Mastering Defensive Security provides you with in-depth knowledge of the latest cybersecurity threats along with the best tools and techniques needed to keep your infrastructure secure. The book begins by establishing a strong foundation of cybersecurity concepts and advances to explore the latest security technologies such as Wireshark, Damn Vulnerable Web App (DVWA), Burp Suite, OpenVAS, and Nmap, hardware threats such as a weaponized

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Raspberry Pi, and hardening techniques for Unix, Windows, web applications, and cloud infrastructures. As you make progress through the chapters, you'll get to grips with several advanced techniques such as malware analysis, security automation, computer forensics, and vulnerability assessment, which will help you to leverage pentesting for security. By the end of this book, you'll have become familiar with creating your own defensive security tools using IoT devices and developed advanced defensive security skills. What you will learn Become well versed with concepts related to defensive security Discover strategies and tools to secure the most vulnerable factor – the user Get hands-on experience using and configuring the best security tools Understand how to apply hardening techniques in Windows and Unix environments Leverage malware analysis and forensics to enhance your security strategy Secure Internet of Things (IoT) implementations Enhance the security of web applications and cloud deployments Who this book is for This book is for IT professionals, including systems administrators, programmers, IT architects, solution engineers, system analysts, data scientists, DBAs, and any IT expert looking to explore the fascinating world of cybersecurity. Cybersecurity professionals who want to broaden their knowledge of security topics to effectively create and design a defensive security

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strategy for a large organization will find this book useful. A basic understanding of concepts such as networking, IT, servers, virtualization, and cloud is required.

When it comes to creating powerful and effective hacking tools, Python is the language of choice for most security analysts. But just how does the magic happen? In *Black Hat Python*, the latest from Justin Seitz (author of the best-selling *Gray Hat Python*), you'll explore the darker side of Python's capabilities—writing network sniffers, manipulating packets, infecting virtual machines, creating stealthy trojans, and more. You'll learn how to:

- Create a trojan command-and-control using GitHub
- Detect sandboxing and automate common malware tasks, like keylogging and screenshotting
- Escalate Windows privileges with creative process control
- Use offensive memory forensics tricks to retrieve password hashes and inject shellcode into a virtual machine
- Extend the popular Burp Suite web-hacking tool
- Abuse Windows COM automation to perform a man-in-the-browser attack
- Exfiltrate data from a network most sneakily

Insider techniques and creative challenges throughout show you how to extend the hacks and how to write your own exploits. When it comes to offensive security, your ability to create powerful tools on the fly is indispensable. Learn how in *Black Hat Python*. Uses Python 2

Whether you're a veteran or an absolute n00b, this is

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the best place to start with Kali Linux, the security professional's platform of choice, and a truly industrial-grade, and world-class operating system distribution-mature, secure, and enterprise-ready. The Official (ISC)²® Guide to the CISSP®-ISSEP® CBK® provides an inclusive analysis of all of the topics covered on the newly created CISSP-ISSEP Common Body of Knowledge. The first fully comprehensive guide to the CISSP-ISSEP CBK, this book promotes understanding of the four ISSEP domains: Information Systems Security Engineering (ISSE); Certification and Accreditation; Technical Management; and an Introduction to United States Government Information Assurance Regulations. This volume explains ISSE by comparing it to a traditional Systems Engineering model, enabling you to see the correlation of how security fits into the design and development process for information systems. It also details key points of more than 50 U.S. government policies and procedures that need to be understood in order to understand the CBK and protect U.S. government information. About the Author Susan Hansche, CISSP-ISSEP is the training director for information assurance at Nortel PEC Solutions in Fairfax, Virginia. She has more than 15 years of experience in the field and since 1998 has served as the contractor program manager of the information assurance training program for the U.S. Department of State.

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The definitive guide to hacking the world of the Internet of Things (IoT) -- Internet connected devices such as medical devices, home assistants, smart home appliances and more. Drawing from the real-life exploits of five highly regarded IoT security researchers, Practical IoT Hacking teaches you how to test IoT systems, devices, and protocols to mitigate risk. The book begins by walking you through common threats and a threat modeling framework. You'll develop a security testing methodology, discover the art of passive reconnaissance, and assess security on all layers of an IoT system. Next, you'll perform VLAN hopping, crack MQTT authentication, abuse UPnP, develop an mDNS poisoner, and craft WS-Discovery attacks. You'll tackle both hardware hacking and radio hacking, with in-depth coverage of attacks against embedded IoT devices and RFID systems. You'll also learn how to:

- Write a DICOM service scanner as an NSE module
- Hack a microcontroller through the UART and SWD interfaces
- Reverse engineer firmware and analyze mobile companion apps
- Develop an NFC fuzzer using Proxmark3
- Hack a smart home by jamming wireless alarms, playing back IP camera feeds, and controlling a smart treadmill

The tools and devices you'll use are affordable and readily available, so you can easily practice what you learn. Whether you're a security researcher, IT team member, or hacking hobbyist,

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you'll find Practical IoT Hacking indispensable in your efforts to hack all the things **REQUIREMENTS:** Basic knowledge of Linux command line, TCP/IP, and programming

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.

Utilize Python scripting to execute effective and efficient penetration tests **About This Book**

Understand how and where Python scripts meet the need for penetration testing Familiarise yourself with the process of highlighting a specific methodology to exploit an environment to fetch critical data Develop your Python and penetration testing skills with real-world examples **Who This Book Is For** If you are a security professional or researcher, with knowledge of different operating systems and a conceptual idea of penetration testing, and you would like to grow your knowledge in Python, then this book is ideal for

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you. What You Will Learn Familiarise yourself with the generation of Metasploit resource files Use the Metasploit Remote Procedure Call (MSFRPC) to automate exploit generation and execution Use Python's Scapy, network, socket, office, Nmap libraries, and custom modules Parse Microsoft Office spreadsheets and eXtensible Markup Language (XML) data files Write buffer overflows and reverse Metasploit modules to expand capabilities Exploit Remote File Inclusion (RFI) to gain administrative access to systems with Python and other scripting languages Crack an organization's Internet perimeter Chain exploits to gain deeper access to an organization's resources Interact with web services with Python In Detail Python is a powerful new-age scripting platform that allows you to build exploits, evaluate services, automate, and link solutions with ease. Python is a multi-paradigm programming language well suited to both object-oriented application development as well as functional design patterns. Because of the power and flexibility offered by it, Python has become one of the most popular languages used for penetration testing. This book highlights how you can evaluate an organization methodically and realistically. Specific tradecraft and techniques are covered that show you exactly when and where industry tools can and should be used and when Python fits a need that proprietary and open source solutions do not. Initial methodology,

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and Python fundamentals are established and then built on. Specific examples are created with vulnerable system images, which are available to the community to test scripts, techniques, and exploits. This book walks you through real-world penetration testing challenges and how Python can help. From start to finish, the book takes you through how to create Python scripts that meet relative needs that can be adapted to particular situations. As chapters progress, the script examples explain new concepts to enhance your foundational knowledge, culminating with you being able to build multi-threaded security tools, link security tools together, automate reports, create custom exploits, and expand Metasploit modules. Style and approach This book is a practical guide that will help you become better penetration testers and/or Python security tool developers. Each chapter builds on concepts and tradecraft using detailed examples in test environments that you can simulate. 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

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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.

Who is this book for? This book is for anyone studying for the Grade 2 Water Distribution Operator Certification Exam. It's intended for newer operators. Grade 2 refers to the second certification level from the bottom. What's inside this book? This book contains three full-length practice tests that are based on the Grade 2 Water Distribution Operator

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Certification Exam. Each exam consists of 100 questions, which test your knowledge of water distribution concepts, and your ability to solve relevant math problems. There are a total of 300 questions in this book. Which topics are covered in this book? Concepts: 1. Water regulations 2. Water sources 3. Water mains 4. Tanks and reservoirs 5. Hydrants 6. Water meters 7. Valves 8. Water services 9. Cross connection 10. Wells 11. Pumps and motors 12. Disinfection 13. Operation and maintenance 14. Safety 15. Security and emergency preparedness 16. Mapping 17. Water quality 18. Hydraulics 19. Backflow devices 20. Sampling 21. Leak detection 22. Cathodic protection 23. Flushing Water math: 1. Disinfection 2. Lbs of chlorine gas required 3. Lbs of calcium hypochlorite required 4. Lbs of sodium hypochlorite required 5. Gallons of sodium hypochlorite required 6. Chlorine demand 7. Mixing solutions 8. Air line in a well 9. Specific capacity of a well 10. Pumps - energy cost 11. Pumping water to a tank 12. Water meters 13. Water pressure in a tank 14. Water level in a tank 15. Fill time for a tank 16. Fill time for a pipeline 17. Detention time 18. Flushing 19. Flowrate 20. Water velocity 21. Water usage from a tank

Gain basic skills in network forensics and learn how to apply them effectively Key Features Investigate network threats with ease Practice forensics tasks such as intrusion detection, network analysis, and

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scanning Learn forensics investigation at the network level Book Description Network forensics is a subset of digital forensics that deals with network attacks and their investigation. In the era of network attacks and malware threat, it's now more important than ever to have skills to investigate network attacks and vulnerabilities. Hands-On Network Forensics starts with the core concepts within network forensics, including coding, networking, forensics tools, and methodologies for forensic investigations. You'll then explore the tools used for network forensics, followed by understanding how to apply those tools to a PCAP file and write the accompanying report. In addition to this, you will understand how statistical flow analysis, network enumeration, tunneling and encryption, and malware detection can be used to investigate your network. Towards the end of this book, you will discover how network correlation works and how to bring all the information from different types of network devices together. By the end of this book, you will have gained hands-on experience of performing forensics analysis tasks. What you will learn Discover and interpret encrypted traffic Learn about various protocols Understand the malware language over wire Gain insights into the most widely used malware Correlate data collected from attacks Develop tools and custom scripts for network forensics automation Who this book is for The book targets incident

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responders, network engineers, analysts, forensic engineers and network administrators who want to extend their knowledge from the surface to the deep levels of understanding the science behind network protocols, critical indicators in an incident and conducting a forensic search over the wire.

Cyber-crime increasingly impacts both the online and offline world, and targeted attacks play a significant role in disrupting services in both.

Targeted attacks are those that are aimed at a particular individual, group, or type of site or service.

Unlike worms and viruses that usually attack indiscriminately, targeted attacks involve intelligence-gathering and planning to a degree that drastically changes its profile. Individuals, corporations, and even governments are facing new threats from targeted attacks. Targeted Cyber Attacks examines real-world examples of directed attacks and provides insight into what techniques and resources are used to stage these attacks so that you can counter them more effectively. A well-structured introduction into the world of targeted cyber-attacks Includes analysis of real-world attacks Written by cyber-security researchers and experts

Hands-On Security in DevOps explores how the techniques of DevOps and Security should be applied together to make cloud services safer. By the end of this book, readers will be ready to build security controls at all layers, monitor and respond to

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attacks on cloud services, and add security organization-wide through risk management and training.

A global security expert draws on psychological insights to help you master the art of social engineering—human hacking. Make friends, influence people, and leave them feeling better for having met you by being more empathetic, generous, and kind. Eroding social conventions, technology, and rapid economic change are making human beings more stressed and socially awkward and isolated than ever. We live in our own bubbles, reluctant to connect, and feeling increasingly powerless, insecure, and apprehensive when communicating with others. A pioneer in the field of social engineering and a master hacker, Christopher Hadnagy specializes in understanding how malicious attackers exploit principles of human communication to access information and resources through manipulation and deceit. Now, he shows you how to use social engineering as a force for good—to help you regain your confidence and control. Human Hacking provides tools that will help you establish rapport with strangers, use body language and verbal cues to your advantage, steer conversations and influence other's decisions, and protect yourself from manipulators. Ultimately, you'll become far more self-aware about how you're presenting yourself—and able to use it to improve your life.

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Hadnagy includes lessons and interactive “missions”—exercises spread throughout the book to help you learn the skills, practice them, and master them. With Human Hacking, you’ll soon be winning friends, influencing people, and achieving your goals.

Penetrationstests mit Metasploit als effektiver Teil der IT-Sicherheitsstrategie Der komplette Workflow: Portscanning mit Nmap, Hacking mit Metasploit, Schwachstellen scannen mit Nessus Die Techniken der Angreifer verstehen und geeignete Gegenmaßnahmen ergreifen Metasploit ist ein mächtiges Werkzeug, mit dem auch unerfahrene Administratoren gängige Angriffsmethoden verstehen und nachstellen können. Der Autor erklärt das Framework dabei nicht in seiner Gesamtheit, sondern greift gezielt alle Themengebiete heraus, die relevant für Verteidiger (sogenannte Blue Teams) sind. Diese erläutert Sebastian Brabetz ausführlich und zeigt, wie sie im Alltag der IT-Security wirkungsvoll eingesetzt werden können. Der Autor vermittelt Ihnen das Basiswissen zu Exploits und Penetration Testing. Sie setzen eine Kali-Linux-Umgebung auf und lernen, sich dort zurechtzufinden. Mit dem kostenlos verfügbaren Portscanner Nmap scannen Sie Systeme auf angreifbare Dienste ab. Sebastian Brabetz führt Sie dann Schritt für Schritt durch einen typischen Hack mit Metasploit und demonstriert, wie Sie mit einfachen Techniken in kürzester Zeit höchste Berechtigungsstufen in den Zielumgebungen erlangen. Schließlich zeigt er Ihnen, wie Sie Metasploit von der

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Meldung einer Sicherheitsbedrohung über das Patchen bis hin zur Validierung in der Verteidigung von IT-Systemen und Netzwerken einsetzen und gibt konkrete Tipps zur Erhöhung Ihres IT-Sicherheitslevels. Zusätzlich lernen Sie, Schwachstellen mit dem Schwachstellenscanner Nessus zu finden, auszuwerten und auszugeben. So wird Metasploit ein effizienter Bestandteil Ihrer IT-Sicherheitsstrategie. Sie können Schwachstellen und Angriffstechniken unter sicheren Rahmenbedingungen selbst anwenden und somit fundierte Entscheidungen treffen sowie nachvollziehen, ob Ihre Gegenmaßnahmen erfolgreich sind.

Master the art of exploiting advanced web penetration techniques with Kali Linux 2016.2 About This Book Make the most out of advanced web pen-testing techniques using Kali Linux 2016.2 Explore how Stored (a.k.a. Persistent) XSS attacks work and how to take advantage of them Learn to secure your application by performing advanced web based attacks. Bypass internet security to traverse from the web to a private network. Who This Book Is For This book targets IT pen testers, security consultants, and ethical hackers who want to expand their knowledge and gain expertise on advanced web penetration techniques. Prior knowledge of penetration testing would be beneficial. What You Will Learn Establish a fully-featured sandbox for test rehearsal and risk-free investigation of applications Enlist open-source information to get a head-start on enumerating account credentials, mapping potential dependencies, and discovering unintended backdoors and exposed information Map, scan, and spider web applications

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using nmap/zenmap, nikto, arachni, webscarab, w3af, and NetCat for more accurate characterization Proxy web transactions through tools such as Burp Suite, OWASP's ZAP tool, and Vega to uncover application weaknesses and manipulate responses Deploy SQL injection, cross-site scripting, Java vulnerabilities, and overflow attacks using Burp Suite, websploit, and SQLMap to test application robustness Evaluate and test identity, authentication, and authorization schemes and sniff out weak cryptography before the black hats do In Detail You will start by delving into some common web application architectures in use, both in private and public cloud instances. You will also learn about the most common frameworks for testing, such as OWASP OGT version 4, and how to use them to guide your efforts. In the next section, you will be introduced to web pentesting with core tools and you will also see how to make web applications more secure through rigorous penetration tests using advanced features in open source tools. The book will then show you how to better hone your web pentesting skills in safe environments that can ensure low-risk experimentation with the powerful tools and features in Kali Linux that go beyond a typical script-kiddie approach. After establishing how to test these powerful tools safely, you will understand how to better identify vulnerabilities, position and deploy exploits, compromise authentication and authorization, and test the resilience and exposure applications possess. By the end of this book, you will be well-versed with the web service architecture to identify and evade various protection mechanisms that are used on the Web today.

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You will leave this book with a greater mastery of essential test techniques needed to verify the secure design, development, and operation of your customers' web applications. Style and approach An advanced-level guide filled with real-world examples that will help you take your web application's security to the next level by using Kali Linux 2016.2.

In the five years since the first edition of this classic book was published, Internet use has exploded. The commercial world has rushed headlong into doing business on the Web, often without integrating sound security technologies and policies into their products and methods. The security risks--and the need to protect both business and personal data--have never been greater. We've updated *Building Internet Firewalls* to address these newer risks. What kinds of security threats does the Internet pose? Some, like password attacks and the exploiting of known security holes, have been around since the early days of networking. And others, like the distributed denial of service attacks that crippled Yahoo, E-Bay, and other major e-commerce sites in early 2000, are in current headlines. Firewalls, critical components of today's computer networks, effectively protect a system from most Internet security threats. They keep damage on one part of the network--such as eavesdropping, a worm program, or file damage--from spreading to the rest of the network. Without firewalls, network security problems can rage out of control, dragging more and more systems down. Like the bestselling and highly respected first edition, *Building Internet Firewalls, 2nd Edition*, is a practical and detailed

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step-by-step guide to designing and installing firewalls and configuring Internet services to work with a firewall. Much expanded to include Linux and Windows coverage, the second edition describes: Firewall technologies: packet filtering, proxying, network address translation, virtual private networks Architectures such as screening routers, dual-homed hosts, screened hosts, screened subnets, perimeter networks, internal firewalls Issues involved in a variety of new Internet services and protocols through a firewall Email and News Web services and scripting languages (e.g., HTTP, Java, JavaScript, ActiveX, RealAudio, RealVideo) File transfer and sharing services such as NFS, Samba Remote access services such as Telnet, the BSD "r" commands, SSH, BackOrifice 2000 Real-time conferencing services such as ICQ and talk Naming and directory services (e.g., DNS, NetBT, the Windows Browser) Authentication and auditing services (e.g., PAM, Kerberos, RADIUS); Administrative services (e.g., syslog, SNMP, SMS, RIP and other routing protocols, and ping and other network diagnostics) Intermediary protocols (e.g., RPC, SMB, CORBA, IIOP) Database protocols (e.g., ODBC, JDBC, and protocols for Oracle, Sybase, and Microsoft SQL Server) The book's complete list of resources includes the location of many publicly available firewall construction tools.

The Basics of Web Hacking introduces you to a tool-driven process to identify the most widespread vulnerabilities in Web applications. No prior experience is needed. Web apps are a "path of least resistance" that can be exploited to cause the most damage to a system,

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with the lowest hurdles to overcome. This is a perfect storm for beginning hackers. The process set forth in this book introduces not only the theory and practical information related to these vulnerabilities, but also the detailed configuration and usage of widely available tools necessary to exploit these vulnerabilities. The Basics of Web Hacking provides a simple and clean explanation of how to utilize tools such as Burp Suite, sqlmap, and Zed Attack Proxy (ZAP), as well as basic network scanning tools such as nmap, Nikto, Nessus, Metasploit, John the Ripper, web shells, netcat, and more. Dr. Josh Pauli teaches software security at Dakota State University and has presented on this topic to the U.S. Department of Homeland Security, the NSA, BlackHat Briefings, and Defcon. He will lead you through a focused, three-part approach to Web security, including hacking the server, hacking the Web app, and hacking the Web user. With Dr. Pauli's approach, you will fully understand the what/where/why/how of the most widespread Web vulnerabilities and how easily they can be exploited with the correct tools. You will learn how to set up a safe environment to conduct these attacks, including an attacker Virtual Machine (VM) with all necessary tools and several known-vulnerable Web application VMs that are widely available and maintained for this very purpose. Once you complete the entire process, not only will you be prepared to test for the most damaging Web exploits, you will also be prepared to conduct more advanced Web hacks that mandate a strong base of knowledge. Provides a simple and clean approach to Web hacking, including hands-on examples and

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exercises that are designed to teach you how to hack the server, hack the Web app, and hack the Web user
Covers the most significant new tools such as nmap, Nikto, Nessus, Metasploit, John the Ripper, web shells, netcat, and more! Written by an author who works in the field as a penetration tester and who teaches Web security classes at Dakota State University

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

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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.

As protecting information becomes a rapidly growing concern for today's businesses, certifications in IT security have become highly desirable, even as the number of certifications has grown. Now you can set yourself apart with the Certified Ethical Hacker (CEH v10) certification. The CEH v10 Certified Ethical Hacker Study Guide offers a comprehensive overview of the CEH certification requirements using concise and easy-to-follow instruction. Chapters are organized by exam objective, with a handy section that maps each objective to its corresponding chapter, so you can keep track of your progress. The text provides thorough coverage of all topics, along with challenging chapter review questions and Exam Essentials, a key feature that identifies critical study areas. Subjects include intrusion detection, DDoS attacks, buffer overflows, virus creation, and more. This study guide goes beyond test prep, providing practical hands-on exercises to reinforce vital skills and real-world scenarios that put what you've learned into the context of actual job roles. Gain a unique certification that allows you to understand the mind of a hacker Expand your career opportunities with an IT certificate that satisfies the Department of Defense's 8570 Directive for Information Assurance positions Fully updated for the 2018 CEH v10 exam, including the latest

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developments in IT security Access the Sybex online learning center, with chapter review questions, full-length practice exams, hundreds of electronic flashcards, and a glossary of key terms Thanks to its clear organization, all-inclusive coverage, and practical instruction, the CEH v10 Certified Ethical Hacker Study Guide is an excellent resource for anyone who needs to understand the hacking process or anyone who wants to demonstrate their skills as a Certified Ethical Hacker.

Full-length practice tests covering all CISSP domains for the ultimate in exam prep The CISSP Official (ISC)² Practice Tests is a major resource for CISSP candidates, providing 1300 unique practice questions. The first part of the book provides 100 questions per domain so you can practice on any domains you know you need to brush up on. After that, you get two unique 250-question practice exams to help you master the material and practice simulated exam taking well in advance of the exam. The two practice exams cover all exam domains, and are included in identical proportion to the exam itself to help you gauge the relative importance of each topic covered. As the only official practice tests endorsed by the (ISC)², this book gives you the advantage of full and complete preparation: coverage includes Security and Risk Management; Asset Security; Security Engineering; Communication and Network Security; Identity and Access Management; Security Assessment and Testing; Security Operations; and Software Development Security. These practice tests align with the 2015 version of the exam to ensure up-to-date preparation, and are designed to simulate what you'll see on exam day. The

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CISSP credential signifies a body of knowledge and a set of guaranteed skills that put you in demand in the marketplace. This book is your ticket to achieving this prestigious certification, by helping you test what you know against what you need to know. Align your preparation with the 2015 CISSP Body of Knowledge Test your knowledge of all exam domains Identify areas in need of further study Gauge your progress throughout your exam preparation The Certified Information Systems Security Professional exam is refreshed every few years to ensure that candidates are up-to-date on the latest security topics and trends. Currently-aligned preparation resources are critical, and periodic practice tests are one of the best ways to truly measure your level of understanding. The CISSP Official (ISC)2 Practice Tests is your secret weapon for success, and the ideal preparation tool for the savvy CISSP candidate. This book is a practical guide to discovering and exploiting security flaws in web applications. The authors explain each category of vulnerability using real-world examples, screen shots and code extracts. The book is extremely practical in focus, and describes in detail the steps involved in detecting and exploiting each kind of security weakness found within a variety of applications such as online banking, e-commerce and other web applications. The topics covered include bypassing login mechanisms, injecting code, exploiting logic flaws and compromising other users. Because every web application is different, attacking them entails bringing to bear various general principles, techniques and experience in an imaginative way. The most successful

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hackers go beyond this, and find ways to automate their bespoke attacks. This handbook describes a proven methodology that combines the virtues of human intelligence and computerized brute force, often with devastating results. The authors are professional penetration testers who have been involved in web application security for nearly a decade. They have presented training courses at the Black Hat security conferences throughout the world. Under the alias "PortSwigger", Dafydd developed the popular Burp Suite of web application hack tools.

Uses real-world bug reports (vulnerabilities in software or in this case web applications) to teach programmers and InfoSec professionals how to discover and protect vulnerabilities in web applications. Real-World Bug Hunting is a field guide to finding software bugs. Ethical hacker Peter Yaworski breaks down common types of bugs, then contextualizes them with real bug bounty reports released by hackers on companies like Twitter, Facebook, Google, Uber, and Starbucks. As you read each report, you'll gain deeper insight into how the vulnerabilities work and how you might find similar ones. Each chapter begins with an explanation of a vulnerability type, then moves into a series of real bug bounty reports that show how the bugs were found. You'll learn things like how Cross-Site Request Forgery tricks users into unknowingly submitting information to websites they are logged into; how to pass along unsafe JavaScript to execute Cross-Site Scripting; how to access another user's data via Insecure Direct Object References; how to trick websites into disclosing

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information with Server Side Request Forgeries; and how bugs in application logic can lead to pretty serious vulnerabilities. Yaworski also shares advice on how to write effective vulnerability reports and develop relationships with bug bounty programs, as well as recommends hacking tools that can make the job a little easier.

If you are a Python programmer or a security researcher who has basic knowledge of Python programming and want to learn about penetration testing with the help of Python, this book is ideal for you. Even if you are new to the field of ethical hacking, this book can help you find the vulnerabilities in your system so that you are ready to tackle any kind of attack or intrusion.

Prepare for the CEH certification exam with this official review guide and learn how to identify security risks to networks and computers. This easy-to-use guide is organized by exam objectives for quick review so you'll be able to get the serious preparation you need for the challenging Certified Ethical Hacker certification exam 312-50. As the only review guide officially endorsed by EC-Council, this concise book covers all of the exam objectives and includes a CD with a host of additional study tools.

Many of the earliest books, particularly those dating back to the 1900s and before, are now extremely scarce and increasingly expensive. We are republishing these classic works in affordable, high quality, modern editions, using the original text and artwork.

"The complete guide to securing your Apache web server"--Cover.

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Coding for Penetration Testers discusses the use of various scripting languages in penetration testing. The book presents step-by-step instructions on how to build customized penetration testing tools using Perl, Ruby, Python, and other languages. It also provides a primer on scripting including, but not limited to, Web scripting, scanner scripting, and exploitation scripting. It guides the student through specific examples of custom tool development that can be incorporated into a tester's toolkit as well as real-world scenarios where such tools might be used. This book is divided into 10 chapters that explores topics such as command shell scripting; Python, Perl, and Ruby; Web scripting with PHP; manipulating Windows with PowerShell; scanner scripting; information gathering; exploitation scripting; and post-exploitation scripting. This book will appeal to penetration testers, information security practitioners, and network and system administrators. Discusses the use of various scripting languages in penetration testing Presents step-by-step instructions on how to build customized penetration testing tools using Perl, Ruby, Python, and other languages Provides a primer on scripting including, but not limited to, Web scripting, scanner scripting, and exploitation scripting

JUMPSTART YOUR NEW AND EXCITING CAREER AS A PENETRATION TESTER The Pentester BluePrint: Your Guide to Being a Pentester offers readers a chance to delve deeply into the world of the ethical, or "white-hat" hacker. Accomplished pentester and author Phillip L. Wylie and cybersecurity researcher Kim Crawley walk you through the basic and advanced topics necessary to

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understand how to make a career out of finding vulnerabilities in systems, networks, and applications. You'll learn about the role of a penetration tester, what a pentest involves, and the prerequisite knowledge you'll need to start the educational journey of becoming a pentester. Discover how to develop a plan by assessing your current skillset and finding a starting place to begin growing your knowledge and skills. Finally, find out how to become employed as a pentester by using social media, networking strategies, and community involvement. Perfect for IT workers and entry-level information security professionals, *The Pentester BluePrint* also belongs on the bookshelves of anyone seeking to transition to the exciting and in-demand field of penetration testing. Written in a highly approachable and accessible style, *The Pentester BluePrint* avoids unnecessarily technical lingo in favor of concrete advice and practical strategies to help you get your start in pentesting. This book will teach you:

- The foundations of pentesting, including basic IT skills like operating systems, networking, and security systems
- The development of hacking skills and a hacker mindset
- Where to find educational options, including college and university classes, security training providers, volunteer work, and self-study
- Which certifications and degrees are most useful for gaining employment as a pentester
- How to get experience in the pentesting field, including labs, CTFs, and bug bounties

A fast, hands-on introduction to offensive hacking techniques *Hands-On Hacking* teaches readers to see through the eyes of their adversary and apply hacking

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techniques to better understand real-world risks to computer networks and data. Readers will benefit from the author's years of experience in the field hacking into computer networks and ultimately training others in the art of cyber-attacks. This book holds no punches and explains the tools, tactics and procedures used by ethical hackers and criminal crackers alike. We will take you on a journey through a hacker's perspective when focused on the computer infrastructure of a target company, exploring how to access the servers and data. Once the information gathering stage is complete, you'll look for flaws and their known exploits—including tools developed by real-world government financed state-actors. • An introduction to the same hacking techniques that malicious hackers will use against an organization • Written by infosec experts with proven history of publishing vulnerabilities and highlighting security flaws • Based on the tried and tested material used to train hackers all over the world in the art of breaching networks • Covers the fundamental basics of how computer networks are inherently vulnerable to attack, teaching the student how to apply hacking skills to uncover vulnerabilities We cover topics of breaching a company from the external network perimeter, hacking internal enterprise systems and web application vulnerabilities. Delving into the basics of exploitation with real-world practical examples, you won't find any hypothetical academic only attacks here. From start to finish this book will take the student through the steps necessary to breach an organization to improve its security. Written by world-renowned cybersecurity

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experts and educators, Hands-On Hacking teaches entry-level professionals seeking to learn ethical hacking techniques. If you are looking to understand penetration testing and ethical hacking, this book takes you from basic methods to advanced techniques in a structured learning format.

Get hands-on experience on concepts of Bug Bounty Hunting Key Features Get well-versed with the fundamentals of Bug Bounty Hunting Hands-on experience on using different tools for bug hunting Learn to write a bug bounty report according to the different vulnerabilities and its analysis Book Description Bug bounty programs are the deals offered by prominent companies where-in any white-hat hacker can find bugs in the applications and they will have a recognition for the same. The number of prominent organizations having this program has increased gradually leading to a lot of opportunity for Ethical Hackers. This book will initially start with introducing you to the concept of Bug Bounty hunting. Then we will dig deeper into concepts of vulnerabilities and analysis such as HTML injection, CRLF injection and so on. Towards the end of the book, we will get hands-on experience working with different tools used for bug hunting and various blogs and communities to be followed. This book will get you started with bug bounty hunting and its fundamentals. What you will learn Learn the basics of bug bounty hunting Hunt bugs in web applications

Hunt bugs in Android applications Analyze the top 300 bug reports Discover bug bounty hunting research methodologies Explore different tools used for Bug Hunting Who this book is for This book is targeted towards white-hat hackers, or anyone who wants to understand the concept behind bug bounty hunting and understand this brilliant way of penetration testing. This book does not require any knowledge on bug bounty hunting.

Explore os campos de batalha, os combatentes, as ferramentas e as técnicas presentes nos conflitos digitais atuais. "Se você for totalmente iniciante na área de web hacking, este livro ensinará as ferramentas e técnicas básicas necessárias para identificar e explorar diversas vulnerabilidades existentes em aplicações atuais." - Dafydd Stuttard, criador do Burp Suite, coautor do livro *Web Application Hacker's Handbook* Introdução ao web hacking apresenta um processo simples, orientado a ferramentas, para você entender completamente o quê, onde, o porquê e o como das vulnerabilidades mais disseminadas na web e como explorá-las. As aplicações web representam o "caminho mais fácil" a ser explorado de modo a provocar danos sérios em uma empresa, com o mínimo de obstáculos a serem superados. Este é o tipo de invasão perfeito para os hackers iniciantes, e não é necessário ter experiência anterior para mergulhar de cabeça neste livro! O livro *Introdução ao web hacking* conduzirá

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you by a approach constituted of three parts, related to web security: web hacking, web application hacking and web user hacking. You will not only learn the theory but also the practice behind vulnerabilities and attacks on the web, but also how to configure and use tools like Burp Suite, sqlmap, Zed Attack Proxy, web shells, Social-Engineer Toolkit (SET), Nmap, Nessus, Metasploit, netcat and much more! - Discusses a simple and direct approach to web hacking, perfect for beginners - Introduces basic knowledge about vulnerabilities, exploits and web tools to help you prepare for more sophisticated web hacks - Teaches how to configure virtual machines and provides step-by-step instructions for performing exact attacks as you progress through the book

Hacking with Kali introduces you to the most current distribution of the de facto standard tool for Linux pen testing. Starting with the use of the Kali live CD and progressing through installation on hard drives, thumb drives and SD cards, author James Broad walks you through creating a custom version of the Kali live distribution. You'll learn how to configure networking components, storage devices and system services such as DHCP and web services. Once you're familiar with the basic components of the software, you'll learn how to use Kali through the

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phases of the penetration testing lifecycle; one major tool from each phase is explained. The book culminates with a chapter on reporting that will provide examples of documents used prior to, during and after the pen test. This guide will benefit information security professionals of all levels, hackers, systems administrators, network administrators, and beginning and intermediate professional pen testers, as well as students majoring in information security. Provides detailed explanations of the complete penetration testing lifecycle Complete linkage of the Kali information, resources and distribution downloads Hands-on exercises reinforce topics

The Pentester BluePrint Starting a Career as an Ethical Hacker John Wiley & Sons

Requiring no prior hacking experience, Ethical Hacking and Penetration Testing Guide supplies a complete introduction to the steps required to complete a penetration test, or ethical hack, from beginning to end. You will learn how to properly utilize and interpret the results of modern-day hacking tools, which are required to complete a penetration test. The book covers a wide range of tools, including Backtrack Linux, Google reconnaissance, MetaGooFil, dig, Nmap, Nessus, Metasploit, Fast Track Autopwn, Netcat, and Hacker Defender rootkit. Supplying a simple and clean explanation of how to effectively utilize these tools, it

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details a four-step methodology for conducting an effective penetration test or hack. Providing an accessible introduction to penetration testing and hacking, the book supplies you with a fundamental understanding of offensive security. After completing the book you will be prepared to take on in-depth and advanced topics in hacking and penetration testing. The book walks you through each of the steps and tools in a structured, orderly manner allowing you to understand how the output from each tool can be fully utilized in the subsequent phases of the penetration test. This process will allow you to clearly see how the various tools and phases relate to each other. An ideal resource for those who want to learn about ethical hacking but dont know where to start, this book will help take your hacking skills to the next level. The topics described in this book comply with international standards and with what is being taught in international certifications.

Build your own secure enterprise or home penetration testing lab to dig into the various hacking techniques About This Book Design and build an extendable penetration testing lab with wireless access suitable for home and enterprise use Fill the lab with various components and customize them according to your own needs and skill level Secure your lab from unauthorized access and external attacks Who This Book Is For If you are a beginner or a security professional who wishes to learn to

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build a home or enterprise lab environment where you can safely practice penetration testing techniques and improve your hacking skills, then this book is for you. No prior penetration testing experience is required, as the lab environment is suitable for various skill levels and is used for a wide range of techniques from basic to advance. Whether you are brand new to online learning or you are a seasoned expert, you will be able to set up your own hacking playground depending on your tasks. What You Will Learn Determine your needs and choose the appropriate lab components for them Build a virtual or hardware lab network Imitate an enterprise network and prepare intentionally vulnerable software and services Secure wired and wireless access to your lab Choose a penetration testing framework according to your needs Arm your own wireless hacking platform Get to know the methods to create a strong defense mechanism for your system In Detail Starting with the basics of wireless networking and its associated risks, we will guide you through the stages of creating a penetration testing lab with wireless access and preparing your wireless penetration testing machine. This book will guide you through configuring hardware and virtual network devices, filling the lab network with applications and security solutions, and making it look and work like a real enterprise network. The resulting lab protected with WPA-Enterprise will let

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you practice most of the attack techniques used in penetration testing projects. Along with a review of penetration testing frameworks, this book is also a detailed manual on preparing a platform for wireless penetration testing. By the end of this book, you will be at the point when you can practice, and research without worrying about your lab environment for every task. Style and approach This is an easy-to-follow guide full of hands-on examples and recipes. Each topic is explained thoroughly and supplies you with the necessary configuration settings. You can pick the recipes you want to follow depending on the task you need to perform.

While many resources for network and IT security are available, detailed knowledge regarding modern web application security has been lacking—until now. This practical guide provides both offensive and defensive security concepts that software engineers can easily learn and apply. Andrew Hoffman, a senior security engineer at Salesforce, introduces three pillars of web application security: recon, offense, and defense. You'll learn methods for effectively researching and analyzing modern web applications—including those you don't have direct access to. You'll also learn how to break into web applications using the latest hacking techniques. Finally, you'll learn how to develop mitigations for use in your own web applications to protect against hackers. Explore common vulnerabilities plaguing

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today's web applications Learn essential hacking techniques attackers use to exploit applications Map and document web applications for which you don't have direct access Develop and deploy customized exploits that can bypass common defenses Develop and deploy mitigations to protect your applications against hackers Integrate secure coding best practices into your development lifecycle Get practical tips to help you improve the overall security of your web applications

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