

Offensive Security Advanced Web Attacks And Exploitation

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TRISTIN WILLIAMS

Ten Strategies of a World-Class Cybersecurity Operations Center
Packt Publishing Ltd

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 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 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.

Building, Defending, and Attacking Modern Computer Networks
MetasploitThe Penetration Tester's Guide

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.

Computer Security Fundamentals Packt Publishing Ltd

A highly detailed guide to performing powerful attack vectors in many hands-on scenarios and defending significant security flaws in your company's infrastructure Key Features Advanced exploitation techniques to breach modern operating systems and complex network devices Learn about Docker breakouts, Active Directory delegation, and CRON jobs Practical use cases to deliver an intelligent endpoint-protected system Book Description It has always been difficult to gain hands-on experience and a comprehensive understanding of advanced penetration testing techniques and vulnerability assessment and management. This book will be your one-stop solution to compromising complex network devices and modern operating systems. This book provides you with advanced penetration testing techniques that will help you exploit databases, web and application servers, switches or routers, Docker, VLAN, VoIP, and VPN. With this book, you will explore exploitation abilities such as offensive PowerShell tools and techniques, CI servers, database exploitation, Active Directory delegation, kernel exploits, cron jobs, VLAN hopping,

and Docker breakouts. Moving on, this book will not only walk you through managing vulnerabilities, but will also teach you how to ensure endpoint protection. Toward the end of this book, you will also discover post-exploitation tips, tools, and methodologies to help your organization build an intelligent security system. By the end of this book, you will have mastered the skills and methodologies needed to breach infrastructures and provide complete endpoint protection for your system. What you will learn

- Exposure to advanced infrastructure penetration testing techniques and methodologies
- Gain hands-on experience of penetration testing in Linux system vulnerabilities and memory exploitation
- Understand what it takes to break into enterprise networks
- Learn to secure the configuration management environment and continuous delivery pipeline
- Gain an understanding of how to exploit networks and IoT devices
- Discover real-world, post-exploitation techniques and countermeasures

Who this book is for If you are a system administrator, SOC analyst, penetration tester, or a network engineer and want to take your penetration testing skills and security knowledge to the next level, then this book is for you. Some prior experience with penetration testing tools and knowledge of Linux and Windows command-line syntax is beneficial.

A Hands-On Introduction to Hacking IGI Global

Evade antiviruses and bypass firewalls with the most widely used penetration testing frameworks

- Key Features Gain insights into the latest antivirus evasion techniques
- Set up a complete pentesting environment using Metasploit and virtual machines
- Discover a variety of tools and techniques that can be used with Kali Linux

Book Description Penetration testing or ethical hacking is a legal and foolproof way to identify vulnerabilities in your system. With thorough penetration testing, you can secure your system against the majority of threats. This Learning Path starts with an in-depth explanation of what hacking and penetration testing is. You'll gain a deep understanding of classical SQL and command injection flaws, and discover ways to exploit these flaws to secure your system. You'll also learn how to create and customize payloads to evade antivirus software and bypass an organization's defenses. Whether it's exploiting server vulnerabilities and attacking client systems, or compromising mobile phones and installing backdoors, this Learning Path will guide you through all this and more to improve your defense against online attacks. By the end of this Learning Path, you'll have the knowledge and skills you need to invade a system and identify all its vulnerabilities. This Learning Path includes content from the following Packt products: Web Penetration Testing with Kali Linux - Third Edition by Juned Ahmed Ansari and Gilberto Najera-Gutierrez Metasploit Penetration Testing Cookbook - Third Edition by Abhinav Singh, Monika Agarwal, et al

- What you will learn
- Build and analyze Metasploit modules in Ruby
- Integrate Metasploit with other penetration testing tools
- Use server-side attacks to detect vulnerabilities in web servers and their applications
- Explore automated attacks such as fuzzing web applications
- Identify the difference between hacking a web application and network hacking
- Deploy Metasploit with the Penetration Testing Execution Standard (PTES)
- Use MSFvenom to generate payloads and backdoor files, and create shellcode

Who this book is for This Learning Path is designed for security professionals, web programmers, and pentesters who want to learn vulnerability exploitation and make the most of the Metasploit framework. Some understanding of penetration testing and Metasploit is required, but basic system administration skills and the ability to read code are a must.

Practical Web Penetration Testing Packt Publishing Ltd
Incorporate offense and defense for a more effective

networksecurity strategy Network Attacks and Exploitation provides a clear,comprehensive roadmap for developing a complete offensive anddefensive strategy to engage in or thwart hacking and computerespionage. Written by an expert in both government and corporatevulnerability and security operations, this guide helps youunderstand the principles of the space and look beyond theindividual technologies of the moment to develop durablecomprehensive solutions. Numerous real-world examples illustratethe offensive and defensive concepts at work, including Conficker,Stuxnet, the Target compromise, and more. You will find clearguidance toward strategy, tools, and implementation, with practicaladvice on blocking systematic computer espionage and the theft ofinformation from governments, companies, and individuals. Assaults and manipulation of computer networks are rampantaround the world. One of the biggest challenges is fitting theever-increasing amount of information into a whole plan orframework to develop the right strategies to thwart these attacks.This book clears the confusion by outlining the approaches thatwork, the tools that work, and resources needed to apply them. Understand the fundamental concepts of computer networkexploitation Learn the nature and tools of systematic attacks Examine offensive strategy and how attackers will seek tomaintain their advantage Understand defensive strategy, and how current approaches failto change the strategic balance Governments, criminals, companies, and individuals are alloperating in a world without boundaries, where the laws, customs,and norms previously established over centuries are only beginningto take shape. Meanwhile computer espionage continues to grow inboth frequency and impact. This book will help you mount a robustoffense or a strategically sound defense against attacks andexploitation. For a clear roadmap to better network security,Network Attacks and Exploitation is your complete andpractical guide.

Defend your systems from methodized and proficient attackers
Syngress

Learn how to execute web application penetration testing end-to-end

- Key Features Build an end-to-end threat model landscape for web application security
- Learn both web application vulnerabilities and web intrusion testing
- Associate network vulnerabilities with a web application infrastructure

Book Description Companies all over the world want to hire professionals dedicated to application security. Practical Web Penetration Testing focuses on this very trend, teaching you how to conduct application security testing using real-life scenarios. To start with, you'll set up an environment to perform web application penetration testing. You will then explore different penetration testing concepts such as threat modeling, intrusion test, infrastructure security threat, and more, in combination with advanced concepts such as Python scripting for automation. Once you are done learning the basics, you will discover end-to-end implementation of tools such as Metasploit, Burp Suite, and Kali Linux. Many companies deliver projects into production by using either Agile or Waterfall methodology. This book shows you how to assist any company with their SDLC approach and helps you on your journey to becoming an application security specialist. By the end of this book, you will have hands-on knowledge of using different tools for penetration testing. What you will learn

- Learn how to use Burp Suite effectively
- Use Nmap, Metasploit, and more tools for network infrastructure tests
- Practice using all web application hacking tools for intrusion tests using Kali Linux
- Learn how to analyze a web application using application threat modeling
- Know how to conduct web intrusion tests
- Understand how to execute network infrastructure tests
- Master automation of penetration testing functions for maximum efficiency using Python

Who this book is for Practical Web

Penetration Testing is for you if you are a security professional, penetration tester, or stakeholder who wants to execute penetration testing using the latest and most popular tools. Basic knowledge of ethical hacking would be an added advantage. *Current and Emerging Trends in Cyber Operations* No Starch Press

Clearly explains core concepts, terminology, challenges, technologies, and skills Covers today's latest attacks and countermeasures The perfect beginner's guide for anyone interested in a computer security career Dr. Chuck Easttom brings together complete coverage of all basic concepts, terminology, and issues, along with all the skills you need to get started. Drawing on 30 years of experience as a security instructor, consultant, and researcher, Easttom helps you take a proactive, realistic approach to assessing threats and implementing countermeasures. Writing clearly and simply, he addresses crucial issues that many introductory security books ignore, while addressing the realities of a world where billions of new devices are Internet-connected. This guide covers web attacks, hacking, spyware, network defense, security appliances, VPNs, password use, and much more. Its many tips and examples reflect new industry trends and the state-of-the-art in both attacks and defense. Exercises, projects, and review questions in every chapter help you deepen your understanding and apply all you've learned. Whether you're a student, a professional, or a manager, this guide will help you protect your assets—and expand your career options. LEARN HOW TO Identify and prioritize potential threats to your network Use basic networking knowledge to improve security Get inside the minds of hackers, so you can deter their attacks Implement a proven layered approach to network security Resist modern social engineering attacks Defend against today's most common Denial of Service (DoS) attacks Halt viruses, spyware, worms, Trojans, and other malware Prevent problems arising from malfeasance or ignorance Choose the best encryption methods for your organization Compare security technologies, including the latest security appliances Implement security policies that will work in your environment Scan your network for vulnerabilities Evaluate potential security consultants Master basic computer forensics and know what to do if you're attacked Learn how cyberterrorism and information warfare are evolving

Cyber Law, Privacy, and Security: Concepts, Methodologies, Tools, and Applications Pearson IT Certification

Build a better defense against motivated, organized, professional attacks Advanced Penetration Testing: Hacking the World's Most Secure Networks takes hacking far beyond Kali linux and Metasploit to provide a more complex attack simulation. Featuring techniques not taught in any certification prep or covered by common defensive scanners, this book integrates social engineering, programming, and vulnerability exploits into a multidisciplinary approach for targeting and compromising high security environments. From discovering and creating attack vectors, and moving unseen through a target enterprise, to establishing command and exfiltrating data—even from organizations without a direct Internet connection—this guide contains the crucial techniques that provide a more accurate picture of your system's defense. Custom coding examples use VBA, Windows Scripting Host, C, Java, JavaScript, Flash, and more, with coverage of standard library applications and the use of scanning tools to bypass common defensive measures. Typical penetration testing consists of low-level hackers attacking a system with a list of known vulnerabilities, and defenders preventing those hacks using an equally well-known list of defensive scans. The professional hackers and nation states on

the forefront of today's threats operate at a much more complex level—and this book shows you how to defend your high security network. Use targeted social engineering pretexts to create the initial compromise Leave a command and control structure in place for long-term access Escalate privilege and breach networks, operating systems, and trust structures Infiltrate further using harvested credentials while expanding control Today's threats are organized, professionally-run, and very much for-profit. Financial institutions, health care organizations, law enforcement, government agencies, and other high-value targets need to harden their IT infrastructure and human capital against targeted advanced attacks from motivated professionals. Advanced Penetration Testing goes beyond Kali linux and Metasploit and to provide you advanced pen testing for high security networks.

Improving your Penetration Testing Skills No Starch Press

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 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 *Policy, Strategy and Practice* Packt Publishing Ltd This book explores current and emerging trends in policy, strategy, and practice related to cyber operations conducted by states and non-state actors. The book examines in depth the nature and dynamics of conflicts in the cyberspace, the geopolitics of cyber conflicts, defence strategy and practice, cyber intelligence and information security.

Tools and Techniques to Attack the Web Packt Publishing Ltd

An intensive hands-on guide to perform professional penetration testing for highly-secured environments from start to finish. You will learn to provide penetration testing services to clients with mature security infrastructure. Understand how to perform each stage of the penetration test by gaining hands-on experience in performing attacks that mimic those seen in the wild. In the end, take the challenge and perform a virtual penetration test against a fictional corporation. If you are looking for guidance and detailed instructions on how to perform a penetration test from start to finish, are looking to build out your own penetration testing lab, or are looking to improve on your existing penetration

testing skills, this book is for you. Although the book attempts to accommodate those that are still new to the penetration testing field, experienced testers should be able to gain knowledge and hands-on experience as well. The book does assume that you have some experience in web application testing and as such the chapter regarding this subject may require you to understand the basic concepts of web security. The reader should also be familiar with basic IT concepts, and commonly used protocols such as TCP/IP.

Metasploit No Starch Press

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 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

Protect your network and enterprise against advanced cybersecurity attacks and threats Springer

Master Wireshark to solve real-world security problems If you don't already use Wireshark for a wide range of information security tasks, you will after this book. Mature and powerful, Wireshark is commonly used to find root cause of challenging network issues. This book extends that power to information security professionals, complete with a downloadable, virtual lab environment. Wireshark for Security Professionals covers both offensive and defensive concepts that can be applied to essentially any InfoSec role. Whether into network security, malware analysis, intrusion detection, or penetration testing, this book demonstrates Wireshark through relevant and useful examples. Master Wireshark through both lab scenarios and exercises. Early in the book, a virtual lab environment is provided for the purpose of getting hands-on experience with Wireshark. Wireshark is combined with two popular platforms: Kali, the security-focused Linux distribution, and the Metasploit Framework, the open-source framework for security testing. Lab-based virtual systems generate network traffic for analysis, investigation and demonstration. In addition to following along with the labs you will be challenged with end-of-chapter exercises to expand on covered material. Lastly, this book explores Wireshark with Lua, the light-weight programming language. Lua allows you to extend and customize Wireshark's features for your needs as a security professional. Lua source code is available both in the book and online. Lua code and lab source code are available online through GitHub, which the book also introduces. The book's final two chapters greatly draw on Lua and TShark, the command-line interface of Wireshark. By the end of the book you will gain the following: Master the basics of Wireshark Explore the virtual w4sp-lab environment that mimics a real-world network Gain experience using the Debian-based Kali OS among other systems Understand the technical details behind

network attacks Execute exploitation and grasp offensive and defensive activities, exploring them through Wireshark Employ Lua to extend Wireshark features and create useful scripts To sum up, the book content, labs and online material, coupled with many referenced sources of PCAP traces, together present a dynamic and robust manual for information security professionals seeking to leverage Wireshark.

Using Wireshark and the Metasploit Framework Packt Publishing Ltd

The highly successful security book returns with a new edition, completely updated Web applications are the front door to most organizations, exposing them to attacks that may disclose personal information, execute fraudulent transactions, or compromise ordinary users. This practical book has been completely updated and revised to discuss the latest step-by-step techniques for attacking and defending the range of ever-evolving web applications. You'll explore the various new technologies employed in web applications that have appeared since the first edition and review the new attack techniques that have been developed, particularly in relation to the client side. Reveals how to overcome the new technologies and techniques aimed at defending web applications against attacks that have appeared since the previous edition Discusses new remoting frameworks, HTML5, cross-domain integration techniques, UI redress, framebusting, HTTP parameter pollution, hybrid file attacks, and more Features a companion web site hosted by the authors that allows readers to try out the attacks described, gives answers to the questions that are posed at the end of each chapter, and provides a summarized methodology and checklist of tasks Focusing on the areas of web application security where things have changed in recent years, this book is the most current resource on the critical topic of discovering, exploiting, and preventing web application security flaws. Also available as a set with, CEHV8: Certified Hacker Version 8 Study Guide, Ethical Hacking and Web Hacking Set, 9781119072171.

Web Application Security Packt Publishing Ltd

Bug Bounty Bootcamp teaches you how to hack web applications. You will learn how to perform reconnaissance on a target, how to identify vulnerabilities, and how to exploit them. You'll also learn how to navigate bug bounty programs set up by companies to reward security professionals for finding bugs in their web applications. Bug bounty programs are company-sponsored programs that invite researchers to search for vulnerabilities on their applications and reward them for their findings. This book is designed to help beginners with little to no security experience learn web hacking, find bugs, and stay competitive in this booming and lucrative industry. You'll start by learning how to choose a program, write quality bug reports, and maintain professional relationships in the industry. Then you'll learn how to set up a web hacking lab and use a proxy to capture traffic. In Part 3 of the book, you'll explore the mechanisms of common web vulnerabilities, like XSS, SQL injection, and template injection, and receive detailed advice on how to find them and bypass common protections. You'll also learn how to chain multiple bugs to maximize the impact of your vulnerabilities. Finally, the book touches on advanced techniques rarely covered in introductory hacking books but that are crucial to understand to hack web applications. You'll learn how to hack mobile apps, review an application's source code for security issues, find vulnerabilities in APIs, and automate your hacking process. By the end of the book, you'll have learned the tools and techniques necessary to be a competent web hacker and find bugs on a bug bounty program.

Advanced Malware Analysis Apress

Seven Deadliest Web Application Attacks highlights the vagaries

of web security by discussing the seven deadliest vulnerabilities exploited by attackers. This book pinpoints the most dangerous hacks and exploits specific to web applications, laying out the anatomy of these attacks including how to make your system more secure. You will discover the best ways to defend against these vicious hacks with step-by-step instruction and learn techniques to make your computer and network impenetrable. Each chapter presents examples of different attacks conducted against web sites. The methodology behind the attack is explored, showing its potential impact. The chapter then moves on to address possible countermeasures for different aspects of the attack. The book consists of seven chapters that cover the following: the most pervasive and easily exploited vulnerabilities in web sites and web browsers; Structured Query Language (SQL) injection attacks; mistakes of server administrators that expose the web site to attack; brute force attacks; and logic attacks. The ways in which malicious software malware has been growing as a threat on the Web are also considered. This book is intended for information security professionals of all levels, as well as web application developers and recreational hackers. Knowledge is power, find out about the most dominant attacks currently waging war on computers and networks globally Discover the best ways to defend against these vicious attacks; step-by-step instruction shows you how Institute countermeasures, don't be caught defenseless again, and learn techniques to make your computer and network impenetrable

Cyber Operations IGI Global

Master the art of detecting and averting advanced network security attacks and techniques About This Book Deep dive into the advanced network security attacks and techniques by leveraging tools such as Kali Linux 2, Metasploit, Nmap, and Wireshark Become an expert in cracking WiFi passwords, penetrating anti-virus networks, sniffing the network, and USB hacks This step-by-step guide shows you how to confidently and quickly detect vulnerabilities for your network before the hacker does Who This Book Is For This book is for network security professionals, cyber security professionals, and Pentesters who are well versed with fundamentals of network security and now want to master it. So whether you're a cyber security professional, hobbyist, business manager, or student aspiring to becoming an ethical hacker or just want to learn more about the cyber security aspect of the IT industry, then this book is definitely for you. What You Will Learn Use SET to clone webpages including the login page Understand the concept of Wi-Fi cracking and use PCAP file to obtain passwords Attack using a USB as payload injector Familiarize yourself with the process of trojan attacks Use Shodan to identify honeypots, rogue access points, vulnerable webcams, and other exploits found in the database Explore various tools for wireless penetration testing and auditing Create an evil twin to intercept network traffic Identify human patterns in networks attacks In Detail Computer networks are increasing at an exponential rate and the most challenging factor organisations are currently facing is network security. Breaching a network is not considered an ingenious effort anymore, so it is very important to gain expertise in securing your network. The book begins by showing you how to identify malicious network behaviour and improve your wireless security. We will teach you what network sniffing is, the various tools associated with it, and how to scan for vulnerable wireless networks. Then we'll show you how attackers hide the payloads and bypass the victim's antivirus. Furthermore, we'll teach you how to spoof IP / MAC address and perform an SQL injection attack and prevent it on your website. We will create an evil twin and demonstrate how to intercept network traffic. Later, you will get familiar with Shodan and Intrusion Detection and will explore

the features and tools associated with it. Toward the end, we cover tools such as Yardstick, Ubertooth, Wifi Pineapple, and Alfa used for wireless penetration testing and auditing. This book will show the tools and platform to ethically hack your own network whether it is for your business or for your personal home Wi-Fi. Style and approach This mastering-level guide is for all the security professionals who are eagerly waiting to master network security skills and protecting their organization with ease. It contains practical scenarios on various network security attacks and will teach you how to avert these attacks.

A practical guide to building a penetration testing program having homefield advantage Elsevier

This book helps people find sensitive information on the Web. Google is one of the 5 most popular sites on the internet with more than 380 million unique users per month (Nielsen/NetRatings 8/05). But, Google's search capabilities are so powerful, they sometimes discover content that no one ever intended to be publicly available on the Web including: social security numbers, credit card numbers, trade secrets, and federally classified documents. Google Hacking for Penetration Testers Volume 2 shows the art of manipulating Google used by security professionals and system administrators to find this sensitive information and "self-police their own organizations. Readers will learn how Google Maps and Google Earth provide pinpoint military accuracy, see how bad guys can manipulate Google to create super worms, and see how they can "mash up" Google with MySpace, LinkedIn, and more for passive reconnaissance. • Learn Google Searching Basics Explore Google's Web-based Interface, build Google queries, and work with Google URLs. • Use Advanced Operators to Perform Advanced Queries Combine advanced operators and learn about colliding operators and bad search-fu. • Learn the Ways of the Google Hacker See how to use caches for anonymity and review directory listings and traversal techniques. • Review Document Grinding and Database Digging See the ways to use Google to locate documents and then search within the documents to locate information. • Understand Google's Part in an Information Collection Framework Learn the principles of automating searches and the applications of data mining. • Locate Exploits and Finding Targets Locate exploit code and then vulnerable targets. • See Ten Simple Security Searches Learn a few searches that give good results just about every time and are good for a security assessment. • Track Down Web Servers Locate and profile web servers, login portals, network hardware and utilities. • See How Bad Guys Troll for Data Find ways to search for usernames, passwords, credit card numbers, social security numbers, and other juicy information. • Hack Google Services Learn more about the AJAX Search API, Calendar, Blogger, Blog Search, and more.

Hands on Hacking John Wiley & Sons

Learn how people break websites and how you can, too. Real-World Bug Hunting is the premier field guide to finding software bugs. Whether you're a cyber-security beginner who wants to make the internet safer or a seasoned developer who wants to write secure code, ethical hacker Peter Yaworski will show you how it's done. You'll learn about the most common types of bugs like cross-site scripting, insecure direct object references, and server-side request forgery. Using real-life case studies of rewarded vulnerabilities from applications like Twitter, Facebook, Google, and Uber, you'll see how hackers manage to invoke race conditions while transferring money, use URL parameter to cause users to like unintended tweets, and more. Each chapter introduces a vulnerability type accompanied by a series of actual reported bug bounties. The book's collection of tales from the field will teach you how attackers trick users into giving away

their sensitive information and how sites may reveal their vulnerabilities to savvy users. You'll even learn how you could turn your challenging new hobby into a successful career. You'll learn:

- How the internet works and basic web hacking concepts
- How attackers compromise websites
- How to identify functionality commonly associated with vulnerabilities
- How to find bug bounty programs and submit effective vulnerability reports

Real-World Bug Hunting is a fascinating soup-to-nuts primer on web security vulnerabilities, filled with stories from the trenches and practical wisdom. With your new understanding of site security and weaknesses, you can help make the web a safer place--and profit while you're at it.

Packt Publishing Ltd

Build a resilient network and prevent advanced cyber attacks and breaches

Key Features

- Explore modern cybersecurity techniques to protect your networks from ever-evolving cyber threats
- Prevent cyber attacks by using robust cybersecurity strategies
- Unlock the secrets of network security

Book Description

With advanced cyber attacks severely impacting industry giants and the constantly evolving threat landscape, organizations are adopting complex systems to maintain robust and secure environments. Network Security Strategies will help you get well-versed with the tools and techniques required to protect any network environment against modern cyber threats. You'll understand how to identify security vulnerabilities across the

network and how to effectively use a variety of network security techniques and platforms. Next, the book will show you how to design a robust network that provides top-notch security to protect against traditional and new evolving attacks. With the help of detailed solutions and explanations, you'll be able to monitor networks skillfully and identify potential risks. Finally, the book will cover topics relating to thought leadership and the management aspects of network security. By the end of this network security book, you'll be well-versed in defending your network from threats and be able to consistently maintain operational efficiency, security, and privacy in your environment.

What you will learn

- Understand network security essentials, including concepts, mechanisms, and solutions to implement secure networks
- Get to grips with setting up and threat monitoring cloud and wireless networks
- Defend your network against emerging cyber threats in 2020
- Discover tools, frameworks, and best practices for network penetration testing
- Understand digital forensics to enhance your network security skills
- Adopt a proactive approach to stay ahead in network security

Who this book is for

This book is for anyone looking to explore information security, privacy, malware, and cyber threats. Security experts who want to enhance their skill set will also find this book useful. A prior understanding of cyber threats and information security will help you understand the key concepts covered in the book more effectively.