Open Web Application Security Project Owasp Testing Guide

Automated Threat Handbook Security Analytics Alice and Bob Learn Application Security Web Application Security, A Beginner's Guide Web Application Security Application Security Program Handbook Practical Security Automation and Testing Agile Application Security Application Security for the Android Platform Hackable Application Security Program Handbook Developer's Guide to Web Application Security Secure Java ASP.NET Core Security Internet and Web Application Security Web Application Obfuscation The Web Application Hacker's Handbook Hacking Exposed Syngress IT Security Project Management Handbook LSC (GLOBE UNIVERSITY) SD256: VS ePub for Mobile Application Security Using Security Patterns in Web-Application Official (ISC)2 Guide to the CSSLP Deep Learning Applications for Cyber Security SQL injection attacks and mitigations Real-World Cryptography (ISC)2 CCSP Certified Cloud Security Professional Official Practice Tests Web Application Security Securing the Internet of Things Computers at Risk Kali Linux 2 – Assuring Security by Penetration Testing GDPR and Cyber Security for Business Information Systems Spring Security in Action Mobile Application Security Testing CCSP Official (ISC)2 Practice Tests Practical Web Penetration Testing Mobile Application Security Detection of Intrusions and Malware, and Vulnerability Assessment CISO Survey and Report 2013 The Mobile Application Hacker's Handbook Practical REST on Rails 2 Projects

As recognized, adventure as competently as experience more or less lesson, amusement, as skillfully as pact can be gotten by just checking out a book Open Web Application Security Project Owasp Testing Guide moreover it is not directly done, you could assume even more concerning this life, with reference to the world.

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Hackable Jan 22 2022 If you don't fix your security vulnerabilities, attackers will exploit them. It's simply a matter of who finds them first. If you fail to prove that your software is secure, your sales are at risk too. Whether you're a technology executive, developer, or security professional, you are responsible for securing your application. However, you may be uncertain about what works, what doesn't, how hackers exploit applications, or how much to spend. Or maybe you think you do know, but don't realize what you're doing wrong. To defend against attackers, you must think like them. As a leader of ethical hackers, Ted Harrington helps the world's foremost companies secure their technology. Hackable teaches you exactly how. You'll learn how to eradicate security vulnerabilities, establish a threat model, and build security into the development process. You'll build better, more secure products. You'll gain a competitive edge, earn trust, and win sales.

Security Analytics Sep 29 2022 The book gives a comprehensive overview of security issues in cyber physical systems by examining and analyzing the vulnerabilities. It also brings current understanding of common web vulnerabilities and its analysis while maintaining awareness and knowledge of contemporary standards, practices, procedures and methods of Open Web Application Security Project. This book is a medium to funnel creative energy and develop new skills of hacking and analysis of security and expedites the learning of the basics of investigating crimes, including intrusion from the outside and damaging practices from the inside, how criminals apply across devices, networks, and the internet at large and analysis of security data. Features Helps to develop an understanding of how to acquire, prepare, visualize security data. Unfolds the unventured sides of the cyber security analytics and helps spread awareness of the new technological boons. Focuses on the analysis of latest development, challenges, ways for detection and mitigation of attacks, advanced technologies, and methodologies in this area. Designs analytical models to help detect malicious behaviour. The book provides a complete view of data analytics to the readers which include cyber security issues, analysis, threats, vulnerabilities, novel ideas, analysis of latest techniques and technology, mitigation of threats and attacks along with demonstration of practical applications, and is suitable for a wide-ranging audience from graduates to professionals/practitioners and researchers.

Secure Java Oct 19 2021 Most security books on Java focus on cryptography and access control, but exclude key aspects such as coding practices, logging, and web application risk assessment. Encapsulating security requirements for web development with the Java programming platform, Secure Java: For Web Application Development covers secure programming, risk assessment, and threat modeling—explaining how to integrate these practices into a secure software development life cycle. From the risk assessment phase to the proof of concept phase, the book details a secure web application development process. The authors provide in-depth implementation guidance and best practices for access control, cryptography, logging, secure coding, and authentication and authorization in web application development. Discussing the latest application exploits and vulnerabilities, they examine various options and protection mechanisms for securing web applications against these multifarious threats. The book is organized into four sections: Provides a clear view of the growing footprint of web applications Explores the foundations of secure web application development and the risk management process Delves into tactical web application security development with Java EE Deals extensively with security testing of web applications This complete reference includes a case study of an e-commerce company facing web application security challenges, as well as specific techniques for testing the security of web applications. Highlighting state-of-the-art tools for web application security testing, it supplies valuable insight on how to meet important security compliance requirements, including PCI-DSS, PA-DSS, HIPAA, and GLBA. The book also includes an appendix that covers the application security guidelines for the payment card industry standards.

Deep Learning Applications for Cyber Security Dec 09 2020 Cybercrime remains a growing challenge in terms of security and privacy practices. Working together, deep learning and cyber security experts have recently made significant advances in the fields of intrusion detection, malicious code analysis and forensic identification. This book addresses questions of how deep learning methods can be used to advance cyber security objectives, including detection, modeling, monitoring and analysis of as well as defense against various threats to sensitive data and security systems. Filling an important gap between deep learning and cyber security communities, it discusses topics covering a wide range of modern and practical deep learning techniques, frameworks and

development tools to enable readers to engage with the cutting-edge research across various aspects of cyber security. The book focuses on mature and proven techniques, and provides ample examples to help readers grasp the key points.

Spring Security in Action Feb 29 2020 Spring Security in Action shows you how to prevent cross-site scripting and request forgery attacks before they do damage. You'll start with the basics, simulating password upgrades and adding multiple types of authorization. As your skills grow, you'll adapt Spring Security to new architectures and create advanced OAuth2 configurations. By the time you're done, you'll have a customized Spring Security configuration that protects against threats both common and extraordinary. Summary While creating secure applications is critically important, it can also be tedious and time-consuming to stitch together the required collection of tools. For Java developers, the powerful Spring Security framework makes it easy for you to bake security into your software from the very beginning. Filled with code samples and practical examples, Spring Security in Action teaches you how to secure your apps from the most common threats, ranging from injection attacks to lackluster monitoring. In it, you'll learn how to manage system users, configure secure endpoints, and use OAuth2 and OpenID Connect for authentication and authorization. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Security is non-negotiable. You rely on Spring applications to transmit data, verify credentials, and prevent attacks. Adopting "secure by design" principles will protect your network from data theft and unauthorized intrusions. About the book Spring Security in Action shows you how to prevent cross-site scripting and request forgery attacks before they do damage. You'll start with the basics, simulating password upgrades and adding multiple types of authorization. As your skills grow, you'll adapt Spring Security to new architectures and create advanced OAuth2 configurations. By the time you're done, you'll have a customized Spring Security configuration that protects against threats both common and extraordinary. What's inside Encoding passwords and authenticating users Securing endpoints Automating security testing Setting up a standalone authorization server About the reader For experienced Java and Spring developers. About the author Laurentiu Spilca is a dedicated development lead and trainer at Endava, with over ten years of Java experience. Table of Contents PART 1 - FIRST STEPS 1 Security Today 2 Hello Spring Security PART 2 - IMPLEMENTATION 3 Managing users 4 Dealing with passwords 5 Implementing authentication 6 Hands-on: A small secured web application 7 Configuring authorization: Restricting access 8 Configuring authorization: Applying restrictions 9 Implementing filters 10 Applying CSRF protection and CORS 11 Hands-on: A separation of responsibilities 12 How does OAuth 2 work? 13 OAuth 2: Implementing the authorization server 14 OAuth 2: Implementing the resource server 15 OAuth 2: Using JWT and cryptographic signatures 16 Global method security: Pre- and postauthorizations 17 Global method security: Pre- and postfiltering 18 Hands-on: An OAuth 2 application 19 Spring Security for reactive apps 20 Spring Security testing

CCSP Official (ISC)2 Practice Tests Dec 29 2019 NOTE: The exam this book covered, (ISC)2 Certified Cloud Security Professional was updated by (ISC)2 in 2019. For practice for the current exam, please look for the latest edition of these practice tests: (ISC)2 CCSP Certified Cloud Security Professional Official Practice Tests 2nd Edition (9781119603498). With over 1,000 practice questions, this book gives you the opportunity to test your level of understanding and gauge your readiness for the Certified Cloud Security Professional (CCSP) exam long before the big day. These questions cover 100% of the CCSP exam domains, and include answers with full explanations to help you understand the reasoning and approach for each. Logical organization by domain allows you to practice only the areas you need to bring you up to par, without wasting precious time on topics you've already mastered. As the only official practice test product for the CCSP exam endorsed by (ISC)2, this essential resource is your best bet for gaining a thorough understanding of the topic. It also illustrates the relative importance of each domain, helping you plan your remaining study time so you can go into the exam fully confident in your knowledge. When you're ready, two practice exams allow you to simulate the exam day experience and apply your own test-taking strategies with domains given in proportion to the real thing. The online learning environment and practice exams are the perfect way to prepare, and make your progress easy to track.

Practical Security Automation and Testing Apr 24 2022 Your one stop guide to automating infrastructure security using DevOps and DevSecOps Key FeaturesSecure and automate techniques to protect web, mobile or cloud servicesAutomate secure code inspection in C++, Java, Python, and JavaScriptIntegrate security testing with automation frameworks like fuzz, BDD, Selenium and Robot FrameworkBook Description Security automation is the automatic handling of software security assessments tasks. This book helps you to build your security automation framework to scan for vulnerabilities without human intervention. This book will teach you to adopt security automation techniques to continuously improve your entire software development and security testing. You will learn to use open source tools and techniques to integrate security testing tools directly into your CI/CD framework. With this book, you will see how to implement security inspection at every layer, such as secure code inspection, fuzz testing, Rest API, privacy, infrastructure security, and web UI testing. With the help of practical examples, this book will teach you to implement the combination of automation and Security in DevOps. You will learn about the integration of security testing results for an overall security status for projects. By the end of this book, you will be confident implementing automation security in all layers of your software development stages and will be able to build your own in-house security automation platform throughout your mobile and cloud releases. What you will learnAutomate secure code inspection with open source tools and effective secure code scanning suggestionsApply security testing tools and automation frameworks to identify security vulnerabilities in web, mobile and cloud servicesIntegrate security testing tools such as OWASP ZAP, NMAP, SSLyze, SQLMap, and OpenSCAPImplement automation testing techniques with Selenium, JMeter, Robot Framework, Gauntlt, BDD, DDT, and Python unittestExecute security testing of a Rest API Implement web application security with open source tools and script templates for CI/CD integrationIntegrate various types of security testing tool results from a single project into one dashboardWho this book is for The book is for software developers, architects, testers and QA engineers who are looking to leverage automated security testing techniques.

Real-World Cryptography Oct 07 2020 "A staggeringly comprehensive review of the state of modern cryptography. Essential for anyone getting up to speed in information security." - Thomas Doylend, Green Rocket Security An all-practical guide to the cryptography behind common tools and protocols that will help you make excellent security choices for your systems and applications. In Real-World Cryptography, you will find: Best practices for using cryptography Diagrams and explanations of cryptographic algorithms Implementing digital signatures and zero-knowledge proofs Specialized hardware for attacks and highly adversarial environments Identifying and fixing bad practices Choosing the right cryptographic tool for any problem Real-World Cryptography reveals the cryptographic techniques that drive the security of web APIs, registering and logging in users, and even the blockchain. You'll learn how these techniques power modern security, and how to apply them to your own projects. Alongside modern methods, the book also anticipates the future of cryptography, diving into emerging and cutting-edge advances such as cryptocurrencies, and post-quantum cryptography. All techniques are fully illustrated with diagrams and examples so you can easily see how to put them into practice. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from

Manning Publications. About the technology Cryptography is the essential foundation of IT security. To stay ahead of the bad actors attacking your systems, you need to understand the tools, frameworks, and protocols that protect your networks and applications. This book introduces authentication, encryption, signatures, secret-keeping, and other cryptography concepts in plain language and beautiful illustrations. About the book Real-World Cryptography teaches practical techniques for day-to-day work as a developer, sysadmin, or security practitioner. There's no complex math or jargon: Modern cryptography methods are explored through clever graphics and real-world use cases. You'll learn building blocks like hash functions and signatures; cryptographic protocols like HTTPS and secure messaging; and cutting-edge advances like post-quantum cryptography and cryptocurrencies. This book is a joy to read—and it might just save your bacon the next time you're targeted by an adversary after your data. What's inside Implementing digital signatures and zero-knowledge proofs Specialized hardware for attacks and highly adversarial environments Identifying and fixing bad practices Choosing the right cryptographic tool for any problem About the reader For cryptography beginners with no previous experience in the field. About the author David Wong is a cryptography engineer. He is an active contributor to internet standards including Transport Layer Security. Table of Contents PART 1 PRIMITIVES: THE INGREDIENTS OF CRYPTOGRAPHY 1 Introduction 2 Hash functions 3 Message authentication codes 4 Authenticated encryption 5 Key exchanges 6 Asymmetric encryption and hybrid encryption 7 Signatures and zero-knowledge proofs 8 Randomness and secrets PART 2 PROTOCOLS: THE RECIPES OF CRYPTOGRAPHY 9 Secure transport 10 End-to-end encryption 11 User authentication 12 Crypto as in cryptocurrency? 13 Hardware cryptography 14 Post-quantum cryptography 15 Is this it? Next-generation cryptography 16 When and where cryptography fails

Automated Threat Handbook Oct 31 2022

Official (ISC)2 Guide to the CSSLP Jan 10 2021 As the global leader in information security education and certification, (ISC)2 has a proven track record of educating and certifying information security professionals. Its newest certification, the Certified Secure Software Lifecycle Professional (CSSLP) is a testament to the organization's ongoing commitment to information and software security

Web Application Security Jun 26 2022 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

Alice and Bob Learn Application Security Aug 29 2022 Learn application security from the very start, with this comprehensive and approachable guide! Alice and Bob Learn Application Security is an accessible and thorough resource for anyone seeking to incorporate, from the beginning of the System Development Life Cycle, best security practices in software development. This book covers all the basic subjects such as threat modeling and security testing, but also dives deep into more complex and advanced topics for securing modern software systems and architectures. Throughout, the book offers analogies, stories of the characters Alice and Bob, real-life examples, technical explanations and diagrams to ensure maximum clarity of the many abstract and complicated subjects. Topics include: Secure requirements, design, coding, and deployment Security Testing (all forms) Common Pitfalls Application Security Programs Securing Modern Applications Software Developer Security Hygiene Alice and Bob Learn Application Security is perfect for aspiring application security engineers and practicing software developers, as well as software project managers, penetration testers, and chief information security officers who seek to build or improve their application security programs. Alice and Bob Learn Application Security illustrates all the included concepts with easy-to-understand examples and concrete practical applications, furthering the reader's ability to grasp and retain the foundational and advanced topics contained within.

Detection of Intrusions and Malware, and Vulnerability Assessment Sep 25 2019 This book constitutes the refereed proceedings of the 7th International Conference on Detection of Intrusions and Malware, and Vulnerability Assessment, DIMVA 2010, held in Bonn, Germany, in July 2010.The 12 revised full papers presented together with two extended abstracts were carefully selected from 34 initial submissions. The papers are organized in topical sections on host security, trends, vulnerabilities, intrusion detection and web security.

Developer's Guide to Web Application Security Nov 19 2021 Over 75% of network attacks are targeted at the web application layer. This book provides explicit hacks, tutorials, penetration tests, and step-by-step demonstrations for security professionals and Web application developers to defend their most vulnerable applications. This book defines Web application security, why it should be addressed earlier in the lifecycle in development and quality assurance, and how it differs from other types of Internet security. Additionally, the book examines the procedures and technologies that are essential to developing, penetration testing and releasing a secure Web application. Through a review of recent Web application breaches, the book will expose the prolific methods hackers use to execute Web attacks using common vulnerabilities such as SQL Injection, Cross-Site Scripting and Buffer Overflows in the application layer. By taking an in-depth look at the techniques hackers use to exploit Web applications, readers will be better equipped to protect confidential. The Yankee Group estimates the market for Web application-security products and services will grow to $1.74 billion by 2007 from $140 million in 2002 Author Michael Cross is a highly sought after speaker who regularly delivers Web Application presentations at leading conferences including: Black Hat, TechnoSecurity, CanSec West, Shmoo Con, Information Security, RSA Conferences, and more

The Mobile Application Hacker's Handbook Jul 24 2019 See your app through a hacker's eyes to find the real sources of vulnerability The Mobile Application Hacker's Handbook is a comprehensive guide to securing all mobile applications by approaching the issue from a hacker's point of view. Heavily practical, this book provides expert guidance toward discovering and exploiting flaws in mobile applications on the iOS, Android, Blackberry, and Windows Phone platforms. You will learn a proven methodology for approaching mobile application assessments, and the techniques used to prevent, disrupt, and remediate the various types of attacks. Coverage includes data storage, cryptography, transport layers, data leakage, injection attacks, runtime

manipulation, security controls, and cross-platform apps, with vulnerabilities highlighted and detailed information on the methods hackers use to get around standard security. Mobile applications are widely used in the consumer and enterprise markets to process and/or store sensitive data. There is currently little published on the topic of mobile security, but with over a million apps in the Apple App Store alone, the attack surface is significant. This book helps you secure mobile apps by demonstrating the ways in which hackers exploit weak points and flaws to gain access to data. Understand the ways data can be stored, and how cryptography is defeated Set up an environment for identifying insecurities and the data leakages that arise Develop extensions to bypass security controls and perform injection attacks Learn the different attacks that apply specifically to cross-platform apps IT security breaches have made big headlines, with millions of consumers vulnerable as major corporations come under attack. Learning the tricks of the hacker's trade allows security professionals to lock the app up tight. For better mobile security and less vulnerable data, The Mobile Application Hacker's Handbook is a practical, comprehensive guide.

Kali Linux 2 – Assuring Security by Penetration Testing May 02 2020 Achieve the gold standard in penetration testing with Kali using this masterpiece, now in its third edition! About This Book Get a rock-solid insight into penetration testing techniques and test your corporate network against threats like never before Formulate your pentesting strategies by relying on the most up-to-date and feature-rich Kali version in town—Kali Linux 2 (aka Sana). Experience this journey with new cutting-edge wireless penetration tools and a variety of new features to make your pentesting experience smoother Who This Book Is For If you are an IT security professional or a student with basic knowledge of Unix/Linux operating systems, including an awareness of information security factors, and you want to use Kali Linux for penetration testing, this book is for you. What You Will Learn Find out to download and install your own copy of Kali Linux Properly scope and conduct the initial stages of a penetration test Conduct reconnaissance and enumeration of target networks Exploit and gain a foothold on a target system or network Obtain and crack passwords Use the Kali Linux NetHunter install to conduct wireless penetration testing Create proper penetration testing reports In Detail Kali Linux is a comprehensive penetration testing platform with advanced tools to identify, detect, and exploit the vulnerabilities uncovered in the target network environment. With Kali Linux, you can apply appropriate testing methodology with defined business objectives and a scheduled test plan, resulting in a successful penetration testing project engagement. Kali Linux – Assuring Security by Penetration Testing is a fully focused, structured book providing guidance on developing practical penetration testing skills by demonstrating cutting-edge hacker tools and techniques with a coherent, step-by-step approach. This book offers you all of the essential lab preparation and testing procedures that reflect real-world attack scenarios from a business perspective, in today's digital age. Style and approach This practical guide will showcase penetration testing through cutting-edge tools and techniques using a coherent, step-by-step approach.

Mobile Application Security Oct 26 2019 Secure today's mobile devices and applications Implement a systematic approach to security in your mobile application development with help from this practical guide. Featuring case studies, code examples, and best practices, Mobile Application Security details how to protect against vulnerabilities in the latest smartphone and PDA platforms. Maximize isolation, lockdown internal and removable storage, work with sandboxing and signing, and encrypt sensitive user information. Safeguards against viruses, worms, malware, and buffer overflow exploits are also covered in this comprehensive resource. Design highly isolated, secure, and authenticated mobile applications Use the Google Android emulator, debugger, and third-party security tools Configure Apple iPhone APIs to prevent overflow and SQL injection attacks Employ private and public key cryptography on Windows Mobile devices Enforce fine-grained security policies using the BlackBerry Enterprise Server Plug holes in Java Mobile Edition, SymbianOS, and WebOS applications Test for XSS, CSRF, HTTP redirects, and phishing attacks on WAP/Mobile HTML applications Identify and eliminate threats from Bluetooth, SMS, and GPS services Himanshu Dwivedi is a co-founder of iSEC Partners (www.isecpartners.com), an information security firm specializing in application security. Chris Clark is a principal security consultant with iSEC Partners. David Thiel is a principal security consultant with iSEC Partners.

Practical REST on Rails 2 Projects Jun 22 2019 Practical REST on Rails 2 Projects is a guide to joining the burgeoning world of open web applications. It argues that opening up your application can provide significant benefits and involves you in the entire process—from setting up your application, to creating clients for it, to handling success and all its attendant problems. This book is the essential resource for anyone who wants to make their web application a full participant in the new Internet This book is intended for intermediate–to–advanced Rails developers—people who use Rails regularly for sites and applications more complicated than the prototypical roll–your–own blog In particular, it's targeted at Rails developers who want to be good Web 2.0 citizens—sharing the functionality of their app with other sites to the betterment of everyone Application projects include iPhone, Facebook, and REST for the enterprise

CISO Survey and Report 2013 Aug 24 2019

Web Application Security, A Beginner's Guide Jul 28 2022 Security Smarts for the Self-Guided IT Professional “Get to know the hackers—or plan on getting hacked. Sullivan and Liu have created a savvy, essentials-based approach to web app security packed with immediately applicable tools for any information security practitioner sharpening his or her tools or just starting out.” —Ryan McGeehan, Security Manager, Facebook, Inc. Secure web applications from today's most devious hackers. Web Application Security: A Beginner's Guide helps you stock your security toolkit, prevent common hacks, and defend quickly against malicious attacks. This practical resource includes chapters on authentication, authorization, and session management, along with browser, database, and file security--all supported by true stories from industry. You'll also get best practices for vulnerability detection and secure development, as well as a chapter that covers essential security fundamentals. This book's templates, checklists, and examples are designed to help you get started right away. Web Application Security: A Beginner's Guide features: Lingo--Common security terms defined so that you're in the know on the job IMHO--Frank and relevant opinions based on the authors' years of industry experience Budget Note--Tips for getting security technologies and processes into your organization's budget In Actual Practice--Exceptions to the rules of security explained in real-world contexts Your Plan--Customizable checklists you can use on the job now Into Action--Tips on how, why, and when to apply new skills and techniques at work

SQL injection attacks and mitigations Nov 07 2020 Project Report from the year 2018 in the subject Computer Science - Applied, grade: 3.91/4, , language: English, abstract: Structured Query Language Injection is one of the vulnerabilities in OSWAP Top 10 list for web-based application exploitation. In this study, we will be demonstrating the different methods of SQL injection attacks and prevention techniques will be illustrated. Web application are widespread as they have become the necessity for the everyday life. Most web-based applications communicate with a database using a machine-understandable language called Structured Query Language (SQL). SQL injection is a code injection technique, used to attack data-driven applications, in which malicious SQL statements are inserted from the client of the application.

Internet and Web Application Security Aug 17 2021 "Internet and Web Application Security, Third Edition provides an in-depth look at how to secure mobile users as customer-facing information migrates from mainframe computers and application servers to Web-enabled applications. Written by industry experts, this book provides a comprehensive explanation of the evolutionary changes that have occurred in computing, communications, and social networking and discusses how to h Web-enabled applications accessible via the internet. Using examples and exercises, this book incorporates hands-on activities to prepare readers to successfully secure Wsecure systems against all the risks, threats, and vulnerabilities associated witeb-enabled applications"--

Practical Web Penetration Testing Nov 27 2019 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.

Application Security Program Handbook Dec 21 2021 Stop dangerous threats and secure your vulnerabilities without slowing down delivery. This practical book is a one-stop guide to implementing a robust application security program. Stop dangerous threats and secure your vulnerabilities without slowing down delivery. This practical book is a one-stop guide to implementing a robust application security program. Application Security Program Handbook teaches you to implement a robust program of security throughout your development process. It goes well beyond the basics, detailing a flexible approach that can adapt and evolve to new and emerging threats. Follow the expert advice in this guide and you'll reliably deliver software that is free from security defects and critical vulnerabilities. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Application Security for the Android Platform Feb 20 2022 This book will educate readers on the need for application security and secure coding practices when designing any app. No prior knowledge of security or secure programming techniques is assumed. The book will discuss the need for such practices, how the Android environment is structured with respect to security considerations, what services and techniques are available on the platform to protect data, and how developers can build and code applications that address the risk to their applications and the data processed by them. This text is especially important now, as Android is fast becoming the mobile platform target of choice for attackers attempting to steal data from mobile devices.

ASP.NET Core Security Sep 17 2021 Secure your ASP.NET applications before you get hacked! This practical guide includes secure coding techniques with annotated examples and full coverage of built-in ASP.NET Core security tools. In ASP.NET Core Security, you will learn how to: Understand and recognize common web app attacks Implement attack countermeasures Use testing and scanning tools and libraries Activate built-in browser security features from ASP.NET Take advantage of .NET and ASP.NET Core security APIs Manage passwords to minimize damage from a data leak Securely store application secrets ASP.NET Core Security teaches you the skills and countermeasures you need to keep your ASP.NET Core apps secure from the most common web application attacks. With this collection of practical techniques, you will be able to anticipate risks and introduce practices like testing as regular security checkups. You'll be fascinated as the author explores real-world security breaches, including rogue Firefox extensions and Adobe password thefts. The examples present universal security best practices with a sharp focus on the unique needs of ASP.NET Core applications. About the technology Your ASP.NET Core applications are under attack now. Are you ready? Th ere are specific countermeasures you can apply to keep your company out of the headlines. This book demonstrates exactly how to secure ASP.NET Core web applications, including safe browser interactions, recognizing common threats, and deploying the framework's unique security APIs. About the book ASP.NET Core Security is a realistic guide to securing your web applications. It starts on the dark side, exploring case studies of cross-site scripting, SQL injection, and other weapons used by hackers. As you go, you'll learn how to implement countermeasures, activate browser security features, minimize attack damage, and securely store application secrets. Detailed ASP.NET Core code samples in C# show you how each technique looks in practice. What's inside Understand and recognize common web app attacks Testing tools, helper libraries, and scanning tools Activate built-in browser security features Take advantage of .NET and ASP.NET Core security APIs Manage passwords to minimize damage from a data leak About the reader For experienced ASP.NET Core web developers. About the author Christian Wenz is a web pioneer, consultant, and entrepreneur. Table of Contents PART 1 FIRST STEPS 1 On web application security PART 2 MITIGATING COMMON ATTACKS 2 Cross-site scripting (XSS) 3 Attacking session management 4 Cross-site request forgery 5 Unvalidated data 6 SQL injection (and other injections) PART 3 SECURE DATA STORAGE 7 Storing secrets 8 Handling passwords PART 4 CONFIGURATION 9 HTTP headers 10 Error handling 11 Logging and health checks PART 5 AUTHENTICATION AND AUTHORIZATION 12 Securing web applications with ASP.NET Core Identity 13 Securing APIs and single page applications PART 6 SECURITY AS A PROCESS 14 Secure dependencies 15 Audit tools 16 OWASP Top 10

Hacking Exposed May 14 2021 Get in-depth coverage of Web application platforms and their vulnerabilities, presented the same popular format as the international bestseller, Hacking Exposed. Covering hacking scenarios across different programming languages and depicting various types of attacks and countermeasures, this book offers you up-to-date and highly valuable insight into Web application security. "Required reading for Web architects and operators." -- Erik Olson, Microsoft Program Manager, Security, ASP.NET "Just as the original Hacking Exposed revealed the techniques the bad guys were hiding behind, Hacking Exposed Web Applications will do the same for this critical technology. Its methodical approach and appropriate detail will enlighten, educate, and go a long way toward making the Web a safer place in which to do business." -- from the Foreword by Mark

Curphey, Chair of the Open Web Application Security Project "This is a serious technical guide that is also great reading -- scary enough to motivate folks to take Web security seriously but approachable enough to be an effective learning tool. Required reading for Web architects and operators." -- Erik Olson, Program Manager, Security, ASP.NET "What better way to defend against hackers than to understand the tools and techniques that are used to penetrate your site? Hacking Exposed Web Applications offers a detailed look at common vulnerabilities within your applications and explains how to protect yourself from them." -- Mike Mullins, Ecommerce Security Engineer for a leading specialty apparel retailer "At last, your personal guide to preventing the next generation of security threats. This book explains in intricate detail how you can do everything right when it comes to network security and still be owned at the Web application layer." -- Chip Andrews, www.sqlsecurity.com "If you're involved in writing Web-based applications using ASP/ASP.NET, Java, JSP, PHP, or other languages, the Hacking Exposed series is something you DEFINITELY need to read. Before writing one line of code, this book will spark ideas about how to design and secure your Web applications. There are techniques potential hackers could use that I've never even thought of! Great resource!" -- Steve Schofield, Creator and Managing Editor, ASPFree.com

LSC (GLOBE UNIVERSITY) SD256: VS ePub for Mobile Application Security Mar 12 2021 Secure today's mobile devices and applications Implement a systematic approach to security in your mobile application development with help from this practical guide. Featuring case studies, code examples, and best practices, Mobile Application Security details how to protect against vulnerabilities in the latest smartphone and PDA platforms. Maximize isolation, lockdown internal and removable storage, work with sandboxing and signing, and encrypt sensitive user information. Safeguards against viruses, worms, malware, and buffer overflow exploits are also covered in this comprehensive resource. Design highly isolated, secure, and authenticated mobile applications Use the Google Android emulator, debugger, and third-party security tools Configure Apple iPhone APIs to prevent overflow and SQL injection attacks Employ private and public key cryptography on Windows Mobile devices Enforce fine-grained security policies using the BlackBerry Enterprise Server Plug holes in Java Mobile Edition, SymbianOS, and WebOS applications Test for XSS, CSRF, HTTP redirects, and phishing attacks on WAP/Mobile HTML applications Identify and eliminate threats from Bluetooth, SMS, and GPS services Himanshu Dwivedi is a co-founder of iSEC Partners (www.isecpartners.com), an information security firm specializing in application security. Chris Clark is a principal security consultant with iSEC Partners. David Thiel is a principal security consultant with iSEC Partners.

Using Security Patterns in Web-Application Feb 08 2021 Web-Application have been widely accepted by the organization be it in private, public or government sector and form the main part of any e-commerce business on the internet. However with the widespread of web-application, the threats related to the web-application have also emerged. Web-application transmit substantial amount of critical data such as password or credit card information etc. and this data should be protected from an attacker. There has been huge number of attacks on the web-application such as ‘SQL Injection’, ‘Cross-Site Scripting’, ‘Http Response Splitting’ in recent years and it is one of the main concerns in both the software developer and security professional community.This projects aims to explore how security can be incorporated by using security pattern in web-application and how effective it is in addressing the security problems of web-application.

Web Application Obfuscation Jul 16 2021 Web applications are used every day by millions of users, which is why they are one of the most popular vectors for attackers. Obfuscation of code has allowed hackers to take one attack and create hundreds-if not millions-of variants that can evade your security measures. Web Application Obfuscation takes a look at common Web infrastructure and security controls from an attacker's perspective, allowing the reader to understand the shortcomings of their security systems. Find out how an attacker would bypass different types of security controls, how these very security controls introduce new types of vulnerabilities, and how to avoid common pitfalls in order to strengthen your defenses. Named a 2011 Best Hacking and Pen Testing Book by InfoSec Reviews Looks at security tools like IDS/IPS that are often the only defense in protecting sensitive data and assets Evaluates Web application vulnerabilties from the attacker's perspective and explains how these very systems introduce new types of vulnerabilities Teaches how to secure your data, including info on browser quirks, new attacks and syntax tricks to add to your defenses against XSS, SQL injection, and more

Syngress IT Security Project Management Handbook Apr 12 2021 The definitive work for IT professionals responsible for the management of the design, configuration, deployment, and maintenance of enterprise wide security projects. Provides specialized coverage of key project areas including Penetration Testing, Intrusion Detection and Prevention Systems, and Access Control Systems. The first and last word on managing IT security projects, this book provides the level of detail and content expertise required to competently handle highly complex security deployments. In most enterprises, be they corporate or governmental, these are generally the highest priority projects and the security of the entire business may depend on their success. * The first book devoted exclusively to managing IT security projects * Expert authors combine superb project management skills with in-depth coverage of highly complex security projects * By mastering the content in this book, managers will realise shorter schedules, fewer cost over runs, and successful deployments

Securing the Internet of Things Jul 04 2020 Securing the Internet of Things provides network and cybersecurity researchers and practitioners with both the theoretical and practical knowledge they need to know regarding security in the Internet of Things (IoT). This booming field, moving from strictly research to the marketplace, is advancing rapidly, yet security issues abound. This book explains the fundamental concepts of IoT security, describing practical solutions that account for resource limitations at IoT end-node, hybrid network architecture, communication protocols, and application characteristics. Highlighting the most important potential IoT security risks and threats, the book covers both the general theory and practical implications for people working in security in the Internet of Things. Helps researchers and practitioners understand the security architecture in IoT and the state-of-the-art in IoT security countermeasures Explores how the threats in IoT are different from traditional ad hoc or infrastructural networks Provides a comprehensive discussion on the security challenges and solutions in RFID, WSNs, and IoT Contributed material by Dr. Imed Romdhani

Application Security Program Handbook May 26 2022 Stop dangerous threats and secure your vulnerabilities without slowing down delivery. This practical book is a one-stop guide to implementing a robust application security program. In the Application Security Program Handbook you will learn: Why application security is so important to modern software Application security tools you can use throughout the development lifecycle Creating threat models Rating discovered risks Gap analysis on security tools Mitigating web application vulnerabilities Creating a DevSecOps pipeline Application security as a service model Reporting structures that highlight the value of application security Creating a software security ecosystem that benefits development Setting up your program for continuous improvement The Application Security Program Handbook teaches you to implement a robust program of

security throughout your development process. It goes well beyond the basics, detailing flexible security fundamentals that can adapt and evolve to new and emerging threats. Its service-oriented approach is perfectly suited to the fast pace of modern development. Your team will quickly switch from viewing security as a chore to an essential part of their daily work. Follow the expert advice in this guide and you'll reliably deliver software that is free from security defects and critical vulnerabilities. About the technology Application security is much more than a protective layer bolted onto your code. Real security requires coordinating practices, people, tools, technology, and processes throughout the life cycle of a software product. This book provides a reproducible, step-by-step road map to building a successful application security program. About the book The Application Security Program Handbook delivers effective guidance on establishing and maturing a comprehensive software security plan. In it, you'll master techniques for assessing your current application security, determining whether vendor tools are delivering what you need, and modeling risks and threats. As you go, you'll learn both how to secure a software application end to end and also how to build a rock-solid process to keep it safe. What's inside Application security tools for the whole development life cycle Finding and fixing web application vulnerabilities Creating a DevSecOps pipeline Setting up your security program for continuous improvement About the reader For software developers, architects, team leaders, and project managers. About the author Derek Fisher has been working in application security for over a decade, where he has seen numerous security successes and failures firsthand. Table of Contents PART 1 DEFINING APPLICATION SECURITY 1 Why do we need application security? 2 Defining the problem 3 Components of application security PART 2 DEVELOPING THE APPLICATION SECURITY PROGRAM 4 Releasing secure code 5 Security belongs to everyone 6 Application security as a service PART 3 DELIVER AND MEASURE 7 Building a roadmap 8 Measuring success 9 Continuously improving the program

GDPR and Cyber Security for Business Information Systems Mar 31 2020 The General Data Protection Regulation is the latest, and one of the most stringent, regulations regarding Data Protection to be passed into law by the European Union. Fundamentally, it aims to protect the Rights and Freedoms of all the individuals included under its terms; ultimately the privacy and security of all our personal data. This requirement for protection extends globally, to all organisations, public and private, wherever personal data is held, processed, or transmitted concerning any EU citizen. Cyber Security is at the core of data protection and there is a heavy emphasis on the application of encryption and state of the art technology within the articles of the GDPR. This is considered to be a primary method in achieving compliance with the law. Understanding the overall use and scope of Cyber Security principles and tools allows for greater efficiency and more cost effective management of Information systems.GDPR and Cyber Security for Business Information Systems is designed to present specific and practical information on the key areas of compliance to the GDPR relevant to Business Information Systems in a global context.

Computers at Risk Jun 02 2020 Computers at Risk presents a comprehensive agenda for developing nationwide policies and practices for computer security. Specific recommendations are provided for industry and for government agencies engaged in computer security activities. The volume also outlines problems and opportunities in computer security research, recommends ways to improve the research infrastructure, and suggests topics for investigators. The book explores the diversity of the field, the need to engineer countermeasures based on speculation of what experts think computer attackers may do next, why the technology community has failed to respond to the need for enhanced security systems, how innovators could be encouraged to bring more options to the marketplace, and balancing the importance of security against the right of privacy.

(ISC)2 CCSP Certified Cloud Security Professional Official Practice Tests Sep 05 2020 The only official CCSP practice test product endorsed by (ISC)² With over 1,000 practice questions, this book gives you the opportunity to test your level of understanding and gauge your readiness for the Certified Cloud Security Professional (CCSP) exam long before the big day. These questions cover 100% of the CCSP exam domains, and include answers with full explanations to help you understand the reasoning and approach for each. Logical organization by domain allows you to practice only the areas you need to bring you up to par, without wasting precious time on topics you've already mastered. As the only official practice test product for the CCSP exam endorsed by (ISC)², this essential resource is your best bet for gaining a thorough understanding of the topic. It also illustrates the relative importance of each domain, helping you plan your remaining study time so you can go into the exam fully confident in your knowledge. When you're ready, two practice exams allow you to simulate the exam day experience and apply your own test-taking strategies with domains given in proportion to the real thing. The online learning environment and practice exams are the perfect way to prepare, and make your progress easy to track.

Mobile Application Security Testing Jan 28 2020 What may be the consequences for the performance of an organization if all stakeholders are not consulted regarding Mobile Application Security Testing? Has the direction changed at all during the course of Mobile Application Security Testing? If so, when did it change and why? What are your most important goals for the strategic Mobile Application Security Testing objectives? Can we do Mobile Application Security Testing without complex (expensive) analysis? What is our Mobile Application Security Testing Strategy? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Mobile Application Security Testing investments work better. This Mobile Application Security Testing All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Mobile Application Security Testing Self-Assessment. Featuring 710 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Mobile Application Security Testing improvements can be made. In using the questions you will be better able to: - diagnose Mobile Application Security Testing projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Mobile Application Security Testing and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Mobile Application Security Testing Scorecard, you will develop a clear picture of which Mobile Application Security Testing areas need attention. Your purchase includes access details to the Mobile Application Security Testing self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book.

The Web Application Hacker's Handbook Jun 14 2021 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 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.

Web Application Security Aug 05 2020 IBWAS 2009, the Iberic Conference on Web Applications Security, was the first international conference organized by both the OWASP Portuguese and Spanish ch- ters in order to join the international Web application security academic and industry communities to present and discuss the major aspects of Web applications security. There is currently a change in the information systems development paradigm. The emergence of Web 2. 0 technologies led to the extensive deployment and use of W- based applications and Web services as a way to develop new and flexible information systems. Such systems are easy to develop, deploy and maintain and they demonstrate impressive features for users, resulting in their current wide use. The “social” features of these technologies create the necessary “massification” effects that make millions of users share their own personal information and content over large web-based int- active platforms. Corporations, businesses and governments all over the world are also developing and deploying more and more applications to interact with their bu- nesses, customers, suppliers and citizens to enable stronger and tighter relations with all of them. Moreover, legacy non-Web systems are being ported to this new intrin- cally connected environment. IBWAS 2009 brought together application security experts, researchers, educators and practitioners from industry, academia and international communities such as OWASP, in order to discuss open problems and new solutions in application security. In the context of this track, academic researchers were able to combine interesting results with the experience of practitioners and software engineers.

Agile Application Security Mar 24 2022 Agile continues to be the most adopted software development methodology among organizations worldwide, but it generally hasn't integrated well with traditional security management techniques. And most security professionals aren’t up to speed in their understanding and experience of agile development. To help bridge the divide between these two worlds, this practical guide introduces several security tools and techniques adapted specifically to integrate with agile development. Written by security experts and agile veterans, this book begins by introducing security principles to agile practitioners, and agile principles to security practitioners. The authors also reveal problems they encountered in their own experiences with agile security, and how they worked to solve them. You’ll learn how to: Add security practices to each stage of your existing development lifecycle Integrate security with planning, requirements, design, and at the code level Include security testing as part of your team’s effort to deliver working software in each release Implement regulatory compliance in an agile or DevOps environment Build an effective security program through a culture of empathy, openness, transparency, and collaboration