

SQL injection attacks countermeasures assessments

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ABSTRACT

SQL injections attacks have been rated as the most dangerous vulnerability of web-based systems over more than a decade by OWASP top ten. Though different static, runtime and hybrid approaches have been proposed to counter SQL injection attacks, no single approach guarantees flawless prevention/ detection for these attacks. Hundreds of components of open source and commercial software products are reported to be vulnerable for SQL injection to CVE repository every year. In this mapping study, we identify different existing approaches in terms of the cost of computation and protection offered. We found that most of the existing techniques claim to offer protection based on the testing on a very small or limited scale. This study dissects each proposed approach and highlights their strengths and weaknesses and categorizes them based on the underlying technology used to detect or counter the injection attacks.

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1. INTRODUCTION

In recent years SQL injections have emerged as one of the most dangerous types of attacks to web-based systems and are ranked number one among the Open Web Application Security Project's (OWASP) top ten vulnerabilities [1]. SQL injection attacks (SQLIAs) are launched by entering malicious characters into the input fields of web applications resulting in a modified SQL query. There has not been a long history of SQL injection attacks. During the early days of the Internet, most content was static and not prone to injection attacks. The first large scale SQL injection attack was launched in Feb 2002 on Guess.com customers' database permitting the attacker to retrieve more than 200,000 customer names, credit card numbers, and expiration dates. More recently, the National Vulnerability Database (NVD) reports that 7 percent of the total reported incidents in 2011 were caused by SQL injections [2]. Moreover, it was discovered that an average of 71 SQL injection attacks is attempted every hour [3].

SQLIAs are used by attackers to gain access to confidential information in a database. SQLIAs can result in a financial loss as well as a damaged reputation for the impacted organization. There is no sound technique or combination of techniques that fully protects against all types of SQLIAs [4]. To help protect confidential data from being illegally accessed by attackers using SQLIA, the effectiveness of different techniques and combinations of techniques need to be evaluated to determine a robust set of combined techniques to lessen the impact SQLIAs have on an organization. Our strategy for determining which techniques and combinations of techniques are most effective consists of performing a systematic mapping study on the subject of SQLIA mitigation strategies. By analyzing the effectiveness of various techniques, we will be able to identify the best protection mechanisms that also consume the least human and computing

Study Of Sql Injection Attacks And Countermeasures

**Sabu M. Thampi, Gregorio Martinez
Perez, Ryan Ko, Danda B. Rawat**

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SQL Injection Attacks and Countermeasures Chunhui Song, California State University, Sacramento, 2010 *SQL Injection Attacks and Countermeasures* Evan Ryder, 2010 *Sql Injection Attack and Countermeasures* Subi Khan, R. P. Mahapatra, 2012-08 SQL injection has become a predominant type of attacks that target web applications. It allows attackers to obtain unauthorized access to the back end database by submitting malicious SQL query segments to change the intended application generated SQL queries. Researchers have proposed various solutions to address SQL injection problems. However, many of them have limitations and often cannot address all kinds of injection problems. What's more, new types of SQL injection attacks have arisen over the years. To better counter these attacks, identifying and understanding the types of SQL injections and existing countermeasures are very important. This book presents a review of different types of SQL injections and illustrates how to use them to perform attacks. It also surveys existing techniques against SQL injection attacks and analyzes their advantages and disadvantages. In addition, it identifies techniques for building secure systems and applied them to my applications and database system and illustrates how they were performed and the effect of them. *Advances in Information Communication Technology and Computing* Vishal Goar, Manoj Kuri, Rajesh Kumar, Tomonobu Senju, 2024-10-02 The book is a collection of best selected research papers presented at the International Conference on Advances in Information Communication Technology and Computing AICTC 2024 held in NJSC South Kazakhstan State Pedagogical University Shymkent City Kazakhstan during April 29-30, 2024. The book covers ICT based approaches in the areas of ICT for energy efficiency, life cycle assessment of ICT, green IT, green information systems, environmental informatics, energy informatics, sustainable HCI or computational sustainability. **Handbook of Security, Quantum Computing and Internet of Things (IoT)** Usha Jain, Anu Sayal, Anchit Bijalwan, 2026-04-07 Handbook of Security, Quantum Computing and Internet of Things. IoT explores the critical intersection of IoT security and quantum technologies. As IoT devices multiply, ensuring robust protection has become urgent. The book begins with IoT security standards, highlighting vulnerabilities and strategies like SQL Injection Defence, SQLi, DDoS. It addresses architectural challenges and stresses adaptive frameworks to withstand evolving cyber threats. The role of AI and ML in strengthening IoT security is emphasized, including hybrid ML based attack prevention and IP reputation validation in isolated networks. Practical applications such as secure BLE transmission for wearables illustrate real world impacts. A detailed examination of IoT components and vulnerabilities provides actionable guidance for risk mitigation. The handbook also introduces quantum cryptography, presenting future ready methods for safeguarding data. This resource equips researchers, professionals, and students with knowledge to advance IoT security and harness quantum innovations in a rapidly evolving digital landscape. *Advances in Cyber Security* Nibras Abdullah, Selvakumar Manickam, Mohammed Anbar, 2021-12-02 This book presents refereed proceedings of the Third International Conference on Advances in Cyber Security ACeS 2021 held in Penang, Malaysia in August 2021. The 36 full

papers were carefully reviewed and selected from 92 submissions The papers are organized in the following topical sections Internet of Things Industry 4 0 and Blockchain and Cryptology Digital Forensics and Surveillance Botnet and Malware DDoS and Intrusion Detection Prevention Ambient Cloud and Edge Computing SDN Wireless and Cellular Communication Governance Social Media Mobile and Web Data Privacy Data Policy and Fake News

Security in Computing and Communications Sabu M. Thampi, Gregorio Martinez Perez, Ryan Ko, Danda B. Rawat, 2020-04-25 This book constitutes the refereed proceedings of the 7th International Symposium on Security in Computing and Communications SSCC 2019 held in Trivandrum India in December 2019 The 22 revised full papers and 7 revised short papers presented were carefully reviewed and selected from 61 submissions The papers cover wide research fields including cryptography database and storage security human and societal aspects of security and privacy

Trends in Enterprise Architecture Research and Practice-Driven Research on Enterprise Transformation Stephan Aier, Mathias Ekstedt, Florian Matthes, Erik Proper, Jorge L. Sanz, 2012-10-06 This volume constitutes the proceedings of the combined 7th International Workshop on Trends in Enterprise Architecture Research TEAR 2012 and the 5th Working Conference on Practice Driven Research on Enterprise Transformation PRET 5 held in Barcelona Spain October 23 24 2012 and co located with The Open Group s Conference on Enterprise Architecture Cloud Computing and Security Joining the forces of the two events with The Open Group Conference provided the unique opportunity for an intensive exchange between practitioners as well as for discussions on standardization efforts and academic research in the areas of enterprise transformation and enterprise architecture EA Based on careful reviews by at least three Program Committee members 18 papers were chosen for inclusion in these proceedings They were presented in six sessions on enterprise architecture management EAM effectivity languages for EA EAM and the ability to change advanced topics in EA governing enterprise transformations and EA applications

Inventive Computation and Information Technologies S. Smys, Valentina Emilia Balas, Ram Palanisamy, 2022-01-18 This book is a collection of best selected papers presented at the International Conference on Inventive Computation and Information Technologies ICICIT 2021 organized during 12 13 August 2021 The book includes papers in the research area of information sciences and communication engineering The book presents novel and innovative research results in theory methodology and applications of communication engineering and information technologies

Industry Automation: The Technologies, Platforms and Use Cases Pethuru Raj, Abhishek Kumar, Ananth Kumar, Neha Singhal, 2024-08-23 This book details cutting edge technologies versatile tools adaptive processes integrated platforms and best practices of digitized systems With the faster maturity and stability of digitization and digitalization technologies all kinds of physical mechanical and electrical systems in our everyday environments homes hotels hospitals manufacturing floors etc have become digitized systems Such technology has empowered systems to gain the power to join and contribute to fulfilling the goals of modern computing Such digitized entities assist in producing and deploying hugely complicated yet sophisticated context aware services and

applications The other principal contribution is capturing environmental data in real time and enabling local data processing to bring forth actionable insights This facilitates insight driven decisions and deeds Precisely speaking the aspects of real time knowledge discovery and dissemination enable the creation and delivery of real time and real world features and functionalities All industrial artifacts are being digitized connected and empowered to be cognitive in their operations offerings and outputs By smartly leveraging a dazzling array of digital technologies and tools the interaction and collaboration with human experts becomes hugely simplified and speeded up considerably Such cognition enabled industrial machineries equipment appliances assembly lines robots vehicles drones and other assets collectively provide an intelligent environment to envisage and realize state of the art industry 4 0 and 5 0 applications Every industrial process gets optimized and automated to produce next generation products to ensure customer delight to explore fresh avenues to enhance revenues and to embark on higher productivity In addition there are chapters illustrating industrial use cases infrastructure optimization technology assimilation and AI powered data analytics towards industry automation

Hacking Exposed
Stuart McClure,Joel Scambray,George Kurtz,2003 High profile viruses and hacking incidents serve to highlight the dangers of system security breaches This text provides network administrators with a reference for implementing and maintaining sound security policies

CompTIA Security+ Certification Study Guide (Exam SY0-301) Glen Clarke,2011-08-17 The best fully integrated study system available Official CompTIA Content Prepare for CompTIA Security Exam SY0 301 with McGraw Hill a Gold Level CompTIA Authorized Partner offering Official CompTIA Approved Quality Content to give you the competitive edge on exam day With hundreds of practice questions and hands on exercises CompTIA Security Certification Study Guide covers what you need to know and shows you how to prepare for this challenging exam 100% complete coverage of all official objectives for the exam Exam Readiness Checklist you re ready for the exam when all objectives on the list are checked off Inside the Exam sections in every chapter highlight key exam topics covered Two Minute Drills for quick review at the end of every chapter Simulated exam questions match the format tone topics and difficulty of the real exam Covers all the exam topics including Networking Basics and Terminology Security Terminology Security Policies and Standards Types of Attacks System Security Threats Mitigating Security Threats Implementing System Security Securing the Network Infrastructure Wireless Networking and Security Authentication Access Control Cryptography Managing a Public Key Infrastructure Physical Security Risk Analysis Disaster Recovery and Business Continuity Computer Forensics Security Assessments and Audits Monitoring and Auditing CD ROM includes Complete MasterExam practice testing engine featuring One full practice exam Detailed answers with explanations Score Report performance assessment tool 20 CertCam videos from the author 200 Flash Trainer E flashcards PDF copy of the book for studying on the go Lab Exercise PDF with solutions with free online registration Bonus downloadable Master Exam practice test From the Author Security is a critical part of information systems and the need is on the rise for IT professionals proficient in configuring systems in a secure manner and

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Phishing and Countermeasures Markus Jakobsson, Steven Myers, 2007 Phishing and Counter Measures discusses how and why phishing is a threat and presents effective countermeasures Showing you how phishing attacks have been mounting over the years how to detect and prevent current as well as future attacks this text focuses on corporations who supply the resources used by attackers The authors subsequently deliberate on what action the government can take to respond to this situation and compare adequate versus inadequate countermeasures

CEH Certified Ethical Hacker All-in-One Exam Guide, Third Edition Matt Walker, 2016-09-16 Fully up to date coverage of every topic on the CEH v9 certification exam Thoroughly revised for current exam objectives this integrated self study system offers complete coverage of the EC Council s Certified Ethical Hacker v9 exam Inside IT security expert Matt Walker discusses all of the tools techniques and exploits relevant to the CEH exam Readers will find learning objectives at the beginning of each chapter exam tips end of chapter reviews and practice exam questions with in depth answer explanations An integrated study system based on proven pedagogy CEH Certified Ethical Hacker All in One Exam Guide Third Edition features brand new explanations of cloud computing and mobile platforms and addresses vulnerabilities to the latest technologies and operating systems Readers will learn about footprinting and reconnaissance malware hacking Web applications and mobile platforms cloud computing vulnerabilities and much more Designed to help you pass the exam with ease this authoritative resource will also serve as an essential on the job reference Features more than 400 accurate practice questions including new performance based questions Electronic content includes 2 complete practice exams and a PDF copy of the book Written by an experienced educator with more than 30 years of experience in the field

International Electronic Conference on Computer Science Theodore E. Simos, George Psihoyios, 2008-12-02 The aim of IeCCS 2007 is to bring together leading scientists of the international Computer Science community and to attract original research papers of very high quality The topics to be covered include but are not limited to Numerical Analysis Scientific Computation Computational Mathematics Mathematical Software Programming Techniques and Languages Parallel Algorithms and its Applications Symbolic and Algebraic Manipulation Analysis of Algorithms Problem Complexity Mathematical Logic Formal Languages Data Structures Data Bases Information Systems Artificial Intelligence Expert Systems Simulation and Modeling Computer Graphics Software Engineering Image Processing Computer Applications

Hardware Computer Systems Organization Software Data Theory of Computation Mathematics of Computing Information Systems Computing Methodologies Computer Applications Computing Milieu see <http://www.ieccs.net/topics.htm>

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The Top Books of the Year Study Of Sql Injection Attacks And Countermeasures The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthraling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Study Of Sql Injection Attacks And Countermeasures

1. Understanding the eBook Study Of Sql Injection Attacks And Countermeasures
 - The Rise of Digital Reading Study Of Sql Injection Attacks And Countermeasures
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Of Sql Injection Attacks And Countermeasures
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Study Of Sql Injection Attacks And Countermeasures
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Of Sql Injection Attacks And Countermeasures
 - Personalized Recommendations
 - Study Of Sql Injection Attacks And Countermeasures User Reviews and Ratings
 - Study Of Sql Injection Attacks And Countermeasures and Bestseller Lists
5. Accessing Study Of Sql Injection Attacks And Countermeasures Free and Paid eBooks
 - Study Of Sql Injection Attacks And Countermeasures Public Domain eBooks
 - Study Of Sql Injection Attacks And Countermeasures eBook Subscription Services
 - Study Of Sql Injection Attacks And Countermeasures Budget-Friendly Options
6. Navigating Study Of Sql Injection Attacks And Countermeasures eBook Formats
 - ePub, PDF, MOBI, and More
 - Study Of Sql Injection Attacks And Countermeasures Compatibility with Devices
 - Study Of Sql Injection Attacks And Countermeasures Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Of Sql Injection Attacks And Countermeasures
 - Highlighting and Note-Taking Study Of Sql Injection Attacks And Countermeasures
 - Interactive Elements Study Of Sql Injection Attacks And Countermeasures
8. Staying Engaged with Study Of Sql Injection Attacks And Countermeasures

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Of Sql Injection Attacks And Countermeasures
9. Balancing eBooks and Physical Books Study Of Sql Injection Attacks And Countermeasures
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Of Sql Injection Attacks And Countermeasures
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Study Of Sql Injection Attacks And Countermeasures
- Setting Reading Goals Study Of Sql Injection Attacks And Countermeasures
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Study Of Sql Injection Attacks And Countermeasures
- Fact-Checking eBook Content of Study Of Sql Injection Attacks And Countermeasures
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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