

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

Markus Jakobsson, Steven Myers



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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 illustrated how to use them to perform attacks It also surveys existing techniques against SQL injection attacks and analyzed their advantages and disadvantages In addition It identifies techniques for building secure systems and applied them to my applications and database system and illustrated how they were performed and the effect of them Advances in Information Communication Technology and Computing Vishal Goar, Manoj Kuri, Rajesh Kumar, Tomonobu Senjyu, 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 DS 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

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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

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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

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Study Of Sql Injection Attacks And Countermeasures Book Review: Unveiling the Magic of Language

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