MongoDB NoSQL Injection Analysis and Detection

Boyu Hou

Department of CS Kennesaw State University Marietta, GA, USA bhould students kennesaw, edu Kai Qian, Lei Li, Yong Shi

Department of CS Kennesaw State University Marietta, GA, USA (kejan, Ili/13, vshi5) iii kennesaw edu Lixin Tao

Department of CS Pace University New York, USA Itaodepace.edu Jigang Liu

Department of ICS Metropolitian State University St. Paul, MN, USA Jigang Bushmetrostate edu

.thereor... A NoSQL, also called a "Non-Relational" or "Not only SQL," database system provides an approach to data management and database design for very large sets of distributed data and real-time web applications, A NoSQL database system is also a popular data storage for information retrieval because it supports better scalability, availability, and faster data access while comparing with traditional relational database management systems (RDBMS). What the RDBMS data needs is predictable as its data is stored in structured tables by defining the relationship between the different columns. In contrary the data in NoSQL databases does not need to be stored in a structured or fixed fashion. When performance and realtime access are more concerned than consistency, such as indexing and retrieving large numbers of records, NaSQL databases are more suitable than relational databases. With their obvious advantages in better performance, scalability, and flexibility, NeSQL databases have been adopted lately by many small businesses as they are moving their increasing business data into the clouds. However, the research on the security of a specific NoSQ4, database system or NoSQL database systems in general is very limited. Although there are many storage advantages in NoSQL databases, the need of quick and easy access to data has been seriously affected by the security issue of NoSQL databases. This paper examines the maturity of security measures for MongoDB, a typical NoSQL database system, with aspects in both attack and defense at the code level. The experimental testing on NoSQL injections is performed with JavaScript and PHP. After the demonstration on how a serverside JavaScript injection attack against a NoSQL database system reveals the customer's private data, two methods are discussed in preventing this type of security problems from happening. It is believed that our study will help database developers not only realizing that NoSQL database systems are not designed with security as a priority but also learning, how to build a security layer to their organizations. NoSQL applications to avoid NoSQL injections.

Keywords—NoSQL Injection, Security Analysis, Defense, Detection Level

1. INTRODUCTION

Database security has been and will continue to be one of the most critical aspects of application security. Access to a database grants an attacker a dangerous amount of control over the most critical information. For example, SQL injection is a code injection technique that is used to attack data driven applications, in which malicious SQL statements are inserted into an entry field for execution. The malicious user can use SQL commands insert to the Web form submission or enter the domain name to achieve the purpose of tricking the server to execute malicious SQL commands.

Recently, the NoSOL databases have become more and more popular because NoSQL databases provide looser consistency restrictions than traditional SQL databases do. By requiring fewer relational constraints and consistency checks, NoSOL databases often offer performance and scaling benefits Some examples are MongoDB [2]: and Cassandra [3]. MongoDB can be adapted to all sizes of businesses and individuals since it is open source database. The data pattern can be updated flexibly with the development of the application while providing a secondary index and complete inquiry system. But does that mean NoSQL database systems are immune to injections? As an alternative to traditional relational database, NoSQL is a broad class of database management systems that are not traditional relational database management systems. They do not use SQL language as the primary overy language, nor do they typically require fixed table schemas. NoSQL database system allows a user to change data attributes at any time, and data can be added anywhere. There is no need to specify a document design or even a collection up-font. NoSQL databases pay more attention to real-time data processing capability and they are good at directly operation on data access, which greatly promote the development of interactive software system. One of the biggest advantages is the ability to change attributes because of the weakening of structural, so modification process is very convenient.

However, this big advantage also affects its safety where the highest incidence of attacks is injection attacks. It has also been ranked in public enemy number one in the field of database relations. The face that NoSQL does not use SQL language in queries does not mean it is immune to the threat of injection attacks. Many claim that SQL injection does not



Mongo Db Ieee Paper 2012

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Internet and Distributed Computing Systems Wenfeng Li, Shawkat Ali, Gabriel Lodewijks, Giancarlo Fortino, Giuseppe Di Fatta, Zhouping Yin, Mukaddim Pathan, Antonio Guerrieri, Qiang Wang, 2016-09-20 This book constitutes the proceedings of the 9th International Conference on Internet and Distributed Computing Systems IDCS 2016 held in Wuhan China in September 2016 The 30 full papers and 18 short papers presented in this volume were carefully reviewed and selected from 78 submissions They were organized in topical sections named body sensor networks and wearable devices cloud computing and networking distributed computing and big data distributed scheduling and optimization internet of things and its application smart networked transportation and logistics and big data and social networks **Computer Science And Technology - Proceedings Of The International Conference (Cst2016)** Ning Cai, 2016-11-28 This proceedings consists of selected papers presented at the International Conference on Computer Science and Technology CST2016 which was successfully held in Shenzhen China during January 8 10 2016 CST2016 covered a wide range of fundamental studies technical innovations and industrial applications in 7 areas namely Computer Systems Computer Network Security Databases and Information Systems Artificial Intelligence and Multimedia Theory and Software Engineering and Computer Applications CST 2016 aims to provide a forum for researchers engineers and students in the area of computer science and technology It features unique mixed various topics in computer science and technology including big data system architecture hardware and applications CST 2016 attracted more than 300 submissions Among them only 142 papers were accepted in to the conference after a stringent peer review process Intelligent Strategies for ICT M. Shamim Kaiser, Juanying Xie, Vijay Singh Rathore, 2024-05-10 This book contains best selected research papers presented at ICTCS 2023 Eighth International Conference on Information and Communication Technology for Competitive Strategies The conference was held in Jaipur India during 8 9 December 2023 The book covers state of the art as well as emerging topics pertaining to ICT and effective strategies for its implementation for engineering and managerial applications. This book contains papers mainly focused on ICT for computation algorithms and data analytics and IT security The work is presented in three volumes Advances in Signals and Systems Omid Ansary, Meng Lin, B. R. Shivakumar, 2024-11-19 This book comprises select peer reviewed papers from the International Conference on VLSI Signal Processing Power Electronics IoT Communication and Embedded Systems VSPICE 2023 The book provides insights into various aspects of electronics and communication engineering as a holistic approach The various topics covered in this book include VLSI embedded systems signal processing communication power electronics and the Internet of Things The contents mainly focus on the most recent innovations trends concerns and practical challenges and their solutions This book is useful for academicians professionals and researchers in the area of electronics and communications and electrical engineering **Conceptual Modeling** Juan C. Trujillo, Karen C. Davis, Xiaoyong Du, Zhanhuai Li, Tok Wang Ling, Guoliang Li, Mong Li Lee, 2018-09-25 This book constitutes the refereed

proceedings of the 37th International Conference on Conceptual Modeling ER 2018 held in XI an China in October 2018 The 30 full and 13 short papers presented together with 3 keynotes were carefully reviewed and selected from 151 submissions This events covers a wide range of following topics Conceptual modeling studies ontological modeling semi structured data modeling process modeling and management spatio temporal modeling cloud based modeling schema and view modeling languages and models NoSQL modeling conceptual modeling for machine learning and reasoning applications of conceptual Enterprise Information Systems Slimane Hammoudi, Michał Śmiałek, Olivier Camp, Joaquim Filipe, 2018-06-15 modeling This book constitutes extended and revised papers from the 19th International Conference on Enterprise Information Systems ICEIS 2017 held in Porto Portugal in April 2017 The 28 papers presented in this volume were carefully reviewed and selected for inclusion in this book from a total of 318 submissions. They were organized in topical sections named databases and information systems integration artificial intelligence and decision support systems information systems analysis and specification software agents and internet computing human computer interaction and enterprise architecture Advances in Service-Oriented and Cloud Computing Antonio Celesti, Philipp Leitner, 2016-04-26 This volume contains the technical papers presented in the seven high quality workshops associated with the European Conference on Service Oriented and Cloud Computing ESOCC 2015 held in Taormina Italy in September 2015 Third International Workshop on Cloud for IoT CLIoT 2015 5th International Workshop on Adaptive Services for the Future Internet WAS4FI 2015 Second Workshop on Seamless Adaptive Multi cloud Management of Service Based Applications SeaClouds 2015 First International Workshop on Cloud Adoption and Migration CloudWay 2015 First International Workshop on Digital Enterprise Architecture and Engineering IDEA 2015 First Workshop on Federated Cloud Networking FedCloudNet 2015 Abstracts of the presentations held at the European Projects Forum EU Projects 2015 are included in the back matter of this volume The 25 full papers and 6 short papers were carefully reviewed and selected from 48 submissions. They focus on specific topics in service oriented and cloud computing domains such as limits and or advantages of existing cloud solutions Future Internet technologies efficient and adaptive deployment and management of service based applications across multiple clouds novel cloud service migration practices and solutions digitization of enterprises in the cloud computing era federated cloud networking services

A Deep Dive into NoSQL Databases: The Use Cases and Applications, 2018-04-20 A Deep Dive into NoSQL Databases The Use Cases and Applications Volume 109 the latest release in the Advances in Computers series first published in 1960 presents detailed coverage of innovations in computer hardware software theory design and applications. In addition it provides contributors with a medium in which they can explore their subjects in greater depth and breadth This update includes sections on NoSQL and NewSQL databases for big data analytics and distributed computing NewSQL databases and scalable in memory analytics NoSQL web crawler application NoSQL Security a Comparative Study of different In Memory No New SQL Databases NoSQL Hands On 4 NoSQLs the Hadoop Ecosystem and more Provides a very comprehensive yet

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explore the literature identify gaps in the existing works and propose new ideas for research The Role of Cybersecurity in the Industry 5.0 Era Christos Kalloniatis, 2025-02-26 In the Industry 5.0 era technology and human innovation converge to redefine industries and societies bringing unprecedented opportunities and challenges Central to this transformation is cybersecurity the essential foundation for protecting digital assets ensuring trust and enabling sustainable progress This book delves into the evolving role of cybersecurity offering insights to help stakeholders navigate this dynamic landscape This book is structured into 14 chapters and four thematic sections each addressing a core aspect of cybersecurity s interplay with Industry 5 0 These themes reflect the multidimensional nature of cybersecurity challenges and the collaborative solutions required to address them effectively Whether you are a technologist policymaker academic or business leader this book offers valuable perspectives to help you identify the potential cybersecurity challenges that will be raised in the Pervasive Computing and the Networked World Qiaohong Zu, Bo Hu, Atilla Elci, 2013-03-14 This book Industry 5 0 era constitutes the refereed post proceedings of the Joint International Conference on Pervasive Computing and the Networked World ICPCA SWS 2012 held in Istanbul Turkey in November 2012 This conference is a merger of the 7th International Conference on Pervasive Computing and Applications ICPCA and the 4th Symposium on Web Society SWS The 53 revised full papers and 26 short papers presented were carefully reviewed and selected from 143 submissions. The papers cover a wide range of topics from different research communities such as computer science sociology and psychology and explore both theoretical and practical issues in and around the emerging computing paradigms e g pervasive collaboration collaborative business and networked societies. They highlight the unique characteristics of the everywhere computing paradigm and promote the awareness of its potential social and psychological consequences **Handbook of Research on Cloud** Infrastructures for Big Data Analytics Raj, Pethuru, Deka, Ganesh Chandra, 2014-03-31 Clouds are being positioned as the next generation consolidated centralized yet federated IT infrastructure for hosting all kinds of IT platforms and for deploying maintaining and managing a wider variety of personal as well as professional applications and services Handbook of Research on Cloud Infrastructures for Big Data Analytics focuses exclusively on the topic of cloud sponsored big data analytics for creating flexible and futuristic organizations. This book helps researchers and practitioners as well as business entrepreneurs to make informed decisions and consider appropriate action to simplify and streamline the arduous journey towards smarter enterprises New Trends in Database and Information Systems II Nick Bassiliades, Mirjana Ivanovic, Margita Kon-Popovska, Yannis Manolopoulos, Themis Palpanas, Goce Trajcevski, Athena Vakali, 2014-08-16 This volume contains the papers of 3 workshops and the doctoral consortium which are organized in the framework of the 18th East European Conference on Advances in Databases and Information Systems ADBIS 2014 The 3rd International Workshop on GPUs in Databases GID 2014 is devoted to subjects related to utilization of Graphics Processing Units in database environments The use of GPUs in databases has not yet received enough attention from the database community The

intention of the GID workshop is to provide a discussion on popularizing the GPUs and providing a forum for discussion with respect to the GID's research ideas and their potential to achieve high speedups in many database applications The 3rd International Workshop on Ontologies Meet Advanced Information Systems OAIS 2014 has a twofold objective to present new and challenging issues in the contribution of ontologies for designing high quality information systems and new research and technological developments which use ontologies all over the life cycle of information systems The 1st International Workshop on Technologies for Quality Management in Challenging Applications TOMCA 2014 focuses on quality management and its importance in new fields such as big data crowd sourcing and stream databases The Workshop has addressed the need to develop novel approaches and technologies and to entirely integrate quality management into information system management Euro-Par 2015: Parallel Processing Workshops Sascha Hunold, Alexandru Costan, Domingo Giménez, Alexandru Iosup, Laura Ricci, María Engracia Gómez Reguena, Vittorio Scarano, Ana Lucia Varbanescu, Stephen L. Scott, Stefan Lankes, Josef Weidendorfer, Michael Alexander, 2015-12-17 This book constitutes the thoroughly refereed post conference proceedings of 12 workshops held at the 21st International Conference on Parallel and Distributed Computing Euro Par 2015 in Vienna Austria in August 2015 The 67 revised full papers presented were carefully reviewed and selected from 121 submissions The volume includes papers from the following workshops BigDataCloud 4th Workshop on Big Data Management in Clouds Euro EDUPAR First European Workshop on Parallel and Distributed Computing Education for Undergraduate Students Hetero Par 13th International Workshop on Algorithms Models and Tools for Parallel Computing on Heterogeneous Platforms LSDVE Third Workshop on Large Scale Distributed Virtual Environments OMHI 4th International Workshop on On chip Memory Hierarchies and Interconnects PADAPS Third Workshop on Parallel and Distributed Agent Based Simulations PELGA Workshop on Performance Engineering for Large Scale Graph Analytics REPPAR Second International Workshop on Reproducibility in Parallel Computing Resilience 8th Workshop on Resiliency in High Performance Computing in Clusters Clouds and Grids ROME Third Workshop on Runtime and Operating Systems for the Many Core Era UCHPC 8th Workshop on UnConventional High Performance Computing and VHPC 10th Workshop on Virtualization in High Performance Cloud Computing Algorithmic Aspects of Cloud Computing Luca Foschini, Spyros Kontogiannis, 2023-05-25 This book constitutes revised selected papers from the refereed proceedings of the 7th International Symposium on Algorithmic Aspects of Cloud Computing ALGOCLOUD 2022 which took place in Potsdam Germany on September 6 2022 The 6 full papers included in this book were carefully reviewed and selected from 16 submissions They were organized in topical sections as follows Cloud Based Urban Mobility Services New Results in Priority Based Bin Packing More Sparking Soundex based Privacy Preserving Record Linkage and Privacy Preserving Queries of Shortest Path Distances Intelligent Computing and Innovation on Data Science Sheng-Lung Peng, Le Hoang Son, G. Suseendran, D. Balaganesh, 2020-05-14 This book covers both basic and high level concepts relating to the intelligent

computing paradigm and data sciences in the context of distributed computing big data data sciences high performance computing and Internet of Things It is becoming increasingly important to develop adaptive intelligent computing centric energy aware secure and privacy aware systems in high performance computing and IoT applications In this context the book serves as a useful guide for industry practitioners and also offers beginners a comprehensive introduction to basic and advanced areas of intelligent computing Further it provides a platform for researchers engineers academics and industrial professionals around the globe to showcase their recent research concerning recent trends Presenting novel ideas and stimulating interesting discussions the book appeals to researchers and practitioners working in the field of information technology and computer science Innovations in Data Analytics Abhishek Bhattacharya, Soumi Dutta, Paramartha Dutta, Vincenzo Piuri, 2023-05-31 This book features research papers presented at the 1st International Conference on Innovations in Data Analytics ICIDA 2022 held at Eminent College of Management and Technology ECMT West Bengal India during November 29 30 2022 The book presents original research work in the areas of computational intelligence advance computing network security and telecommunication data science and data analytics and pattern recognition The book is beneficial for readers from both academia and industry

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