

AHP-Based Quantitative Approach for Assessing and Comparing Cloud Security

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Abstract—While Cloud usage increasingly involves security considerations, there is still a conspicuous lack of techniques for users to assess/ensure that the security level advertised by the Cloud Service Provider (CSP) is actually delivered. Recent efforts have proposed extending existing Cloud Service Level Agreements (SLAs) to the security domain, by creating Security SLAs (SecLAs) along with attempts to quantify and reason about the security assurance provided by CSPs. However, both technical and usability issues limit their adoption in practice. In this paper we introduce a new technique for conducting quantitative and qualitative analysis of the security level provided by CSPs. Our methodology significantly improves upon contemporary security assessment approaches by creating a novel decision making technique based on the Analytic Hierarchy Process (AHP) that allows the comparison and benchmarking of the security provided by a CSP based on its SecLA. Furthermore, our technique improves security requirements specifications by introducing a flexible and simple methodology that allows users to identify their specific security needs. The proposed technique is demonstrated with real-world CSP data obtained from the Cloud Security Alliance's Security, Trust and Assurance Registry.

I. INTRODUCTION

The paucity of comprehensive approaches to specify, assess and quantitatively reason about security in Cloud systems is a major impediment that customers encounter when they decide to migrate their key applications to the Cloud. On one hand, the Cloud Service Providers (CSPs) are trying to convince users to trust the security of their provided services. On the other hand, users should themselves be able to assess and validate the security claims from the CSPs and then select the best provider that suits their security requirements. In order to meaningfully model and assess CSP security, the European Network and Information Security Agency (ENISA) and the Cloud Security Alliance (CSA) have targeted the specification of security in Cloud services in the form of Service Level Agreements (termed as Security Level Agreements or SecLA [1]). Subsequently, CSA has designed a self-assessment questionnaire framework to define the security information contained in a SecLA: the Consensus Assessments Initiative Questionnaire (CAIQ) [2] where CAIQ currently

contains more than 200 security relevant questions. Multiple CSPs have filled their answers to the CAIQ and published them in the STAR repository (Security, Trust and Assurance Registry) [3]. With the published CAIQ, users are able to browse the claimed information that represents capabilities of the Cloud providers regarding their security controls and policies. However, this is still mostly free-text level qualitative information that is hard to be quantitatively parsed by the user.

While the state of the art predominantly focuses on the methodologies to build and represent Cloud SecLAs [4]–[6], the techniques to quantitatively reason about Cloud SecLA are conspicuous by their paucity. Having user friendly approaches (including automation) to specify desired security attributes and flexible comparison techniques are needed to effectively rank the level of security provided by several CSPs and especially to compare them for matching with respect to the users' security requirements.

A. Contributions

This paper aims to solve these aforementioned issues by developing quantitatively reasoning approaches about Cloud SecLAs. Thus, we propose a framework that allows to (i) automatically compare, benchmark and rank the security level provided by two or more CSPs, (ii) provide a composite quantitative and qualitative SecLA assessment technique based on Analytic Hierarchy process (AHP) depending on Cloud user security requirements and, (iii) allow users to specify their security requirements at varied levels of the security provisions, which would help to remove the need to specify every single security requirement (more than 200 in case of CAIQ). Finally, (iv) we introduce a system validation tool (*SecCloudcomp*) that implements the proposed framework. This tool is publicly available¹ and allows Cloud users to choose the most suitable CSPs by assessing the security of Cloud SecLAs. In this paper we also perform the initial validation of the proposed framework by evaluating a real world case study based on the Cloud SecLAs found on the CSA's public STAR repository.

¹<http://cloud.gquant-security.org>

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Joel Schoen



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Collaborative Approaches for Cyber Security in Cyber-Physical Systems Theo Dimitrakos, Javier Lopez, Fabio Martinelli, 2023-01-02 This book describes cyber security issues underpinning several cyber physical systems and several application domains proposing a common perspective able to collect similarities as well as depict divergences and specific solution methods Special attention is given to those approaches and technologies that unleash the power of collaboration among stakeholders in a field based often developed in isolation and segregation of information Given the pervasively growing dependency of society on IT technology and the corresponding proliferation of cyber threats there is both an imperative need and opportunity to develop a coherent set of techniques to cope with the changing nature of the upcoming cyber security challenges These include evolving threats and new technological means to exploit vulnerabilities of cyber physical systems that have direct socio technical societal and economic consequences for Europe and the world We witness cyber attacks on large scale infrastructures for energy transport healthcare systems and smart systems The interplay between security and safety issues is now paramount and will be even more relevant in the future The book collects contributions from a number of scientists in Europe and presents the results of several European Projects as NeCS SPARTA E CORRIDOR and C3ISP It will be of value to industrial researchers practitioners and engineers developing cyber physical solutions as well as academics and students in cyber security ICT and smart technologies in general *Machine Intelligence for Research and Innovations* Om Prakash Verma, Lipo Wang, Rajesh Kumar, Anupam Yadav, Ranjeet Kumar Rout, 2025-10-27 The book is a collection of high quality peer reviewed research papers presented in the Second International Conference on MACHIne InTElligence for Research InNOvations MAiTRI 2024 Summit held at National Institute of Technology Srinagar India during 21-23 June 2024 This book focuses on recent advancement in the theory and realization of machine intelligence MI and their tools and growing applications such as machine learning deep learning quantum machine learning real time computer vision pattern recognition natural language processing statistical modelling autonomous vehicles human interfaces computational intelligence and robotics ITJEMAST 10(8) 2019 , International Transaction Journal of Engineering Management Applied Sciences Technologies publishes a wide spectrum of research and technical articles as well as reviews experiments experiences modelings simulations designs and innovations from engineering sciences life sciences and related disciplines as well as interdisciplinary cross disciplinary multidisciplinary subjects Original work is required Article submitted must not be under consideration of other publishers for publications **Sustainability of Natural Resources** Rohitashw Kumar, Kanak N. Moharir, Vijay P. Singh, Chaitanya B. Pande, Abhay M. Varade, 2024-06-28 Agriculture is the backbone of the economy in most countries and its output can be impacted by climate change effects India as well as other countries which are predominantly agricultural are facing various challenges due to increasing population which can be met by technological innovations for sustainable agriculture Advanced and innovative technologies in agriculture will not only

solve the problems of fulfilling the food requirement of the growing population but also sustain agriculture in the future Sustainability of Natural Resources Planning and Management addresses the advancement of innovative techniques to address the issues of water scarcity and agricultural yield It discusses various aspects of natural resource management agriculture micro irrigation AI applications for water management and impacts of climate change on water resources This book also deals water resource exploration planning recent geographic information system based studies groundwater modelling and related applications It highlights the optimal strategies for sustainable water resource management and development It also examines precision farming using remote sensing and GIS techniques Proceedings of the 2nd International Conference on Neural Networks and Machine Learning 2023 (ICNNML 2023) Ika Hesti Agustin,2024-06-27 This is an open access book It is with my great pleasure and honor to announce The 2nd International Conference on Neural Networks and Machine Learning which will be held from 7th 8th November 2023 in the University of Jember East Java Indonesia The selected paper will be Published in Advances in Intelligent System Research by Atlantis Press It is the second international conference organized by CGANT Research Group University of Jember **Information and Communication Technology for Development for Africa** Fisseha Mekuria,Ethiopia Enideg Nigussie,Waltenegus Dargie,Mutafugwa Edward,Tesfa Tegegne,2018-07-04 This book constitutes the proceedings of the First International Conference on Information and Communication Technology for Development for Africa ICT4DA 2017 held in Bahir Dar Ethiopia in September 2017 The 31 revised full papers presented were carefully reviewed and selected from 72 submissions The papers address the impact of ICT in fostering economic development in Africa In detail they cover the following topics e services natural language processing intelligent systems mobile and wireless communication privacy and security Methodology for Evaluating and Ranking Manufactured Houses Based on Construction Value Afshan S. Barshan,2003 *Acta Forestalia Fennica* ,1996 An Evaluation of Leisure Agriculture Policy in Taiwan Utilizing the Analytic Hierarchy Process (AHP) Hung-Hsu Yen,2005 Frontiers of Manufacturing Science and Measuring Technology Ran Chen,Wen Li Yao,2011-05-12 Selected peer reviewed papers from the 2011 International Conference on Frontiers of Manufacturing Science and Measuring Technology ICFMM 2011 June 23 24 2011 Chongqing China Sport Materials, Modelling and Simulation Yan Wen Wu,2011-02-12 Selected peer reviewed papers from the 2011 International Conference on Sport Material Modelling and Simulation ICSMMS 2011 January 5 6 2011 Wuhan P R China Proceedings of the 1993 Summer Computer Simulation Conference Joel Schoen,1993 Handbook of Design, Manufacturing and Automation Richard C. Dorf,Andrew Kusiak,1994 Comprehensive detailed and organized for speedy reference everything you need to know about modern manufacturing technology From concurrent engineering to fixture design for machining systems from robotics and artificial intelligence to facility layout planning and automated CAD based inspection this handbook provides all the information you need to design plan and implement a modern efficient manufacturing system tailored to your company s special needs and requirements

Handbook of Design Manufacturing and Automation does more than simply present the characteristics and specifications of each technology much more Each technology is discussed both in terms of its own capabilities and in terms of its compatibility with other technologies and the trade offs involved in choosing one option over another are explored at length An entire section is devoted to the business aspects of converting to the new technologies including acquisition of automation managing advanced manufacturing technology and issues of cost and financing The focus is on incorporating these technologies into a cohesive whole an efficient cost effective manufacturing system Other important topics include Design for automated manufacturing Nontraditional manufacturing processes Machine tool programming techniques and trends Precision engineering and micromanufacturing Computer integrated product planning and control Image processing for manufacturing And much more

Dissecting the Market Dynamics of the Information Security Sector Lara Zouheir Khansa,2008 **International Journal of Production Economics** Elsevier,2004 Extended Comparison Tool for Major Highway Projects James H. Lambert,2003 Under the Virginia Transportation Act signed into law in April 2000 more than 10 billion would have been invested in highway construction public transportation airports and ports during the following 6 years However recent budgetary constraints will result in a delay in investing more than 2 billion in road projects for more than a decade In the current study a previously developed comparison tool was extended to bring quantitative evidence of safety and categorical evidence of broad motivations to planners engineers and the public in comparing the benefits of proposed transportation projects The extended tool developed in the current study provides visual devices for presenting multifaceted information about project attributes Policymakers and planners may find the presentation useful in assessing what types of projects are being undertaken and what projects to prefer to others The extended tool represents project information including cost average daily traffic and crash rates for comparison and prioritization of the 1 500 candidate projects that constitute the development plan of Virginia highways The extended tool is flexible to accommodate applications such as project selection planning and programming Several sources of information include the crash databases of the Virginia Department of Transportation VDOT and project plans for districts and localities The extended tool enables planners to identify principal motivations for various projects based on categories defined by the Transportation Equity Act for the 21st Century The tool introduces summary reports of criteria including project aggregate costs and counts of projects with particular motivations facilitating system level analyses and project ranking The summary reports can be useful to interpret outcomes of human deliberation or multicriteria rating and ranking processes some of which are demonstrated in this study in the body of the report and in a substantial appendix The major innovation of the extended comparison tool is its ability to synthesize the relevant quantitative and categorical information on a large and diverse portfolio of highway investments bringing more evidence to the table earlier in the planning process Three case studies demonstrate the application of the extended comparison tool in short medium and long term transportation plans These case studies are the VDOT Culpeper

District Transportation Development Plan a 6 year plan long range financially constrained plans of selected small Virginia localities and the long range plan of the Thomas Jefferson Planning District Commission The incremental data to assess over 100 projects in a VDOT District Six Year Plan were collected in 90 minutes providing an advantage over typical methods that can require several hours or more per project Recommendations are given for implementation of the extended comparison tool and further development of the software prototype **GIS India** ,2002 *Expert Systems Applications in Engineering and Manufacturing* Adedeji Bodunde Badiru,1992 A comprehensive integrated guide to engineering and manufacturing applications of expert systems Advances in Computers, Electronics and Mechatronics Prasad Yarlagadda,2014-10-08 Selected peer reviewed papers from the 2014 International Forum on Computers Electronics and Mechatronics IFCEM 2014 August 27 28 2014 Zhuhai China *Handbook of Team Design* Peter H. Jones,1998 But this book does more than draw on all the most successful approaches to team design as applied in a broad range of real world situations The Handbook of Team Design also presents a new system of frameworks for applying these methods BOOK JACKET It provides you with guidelines for four separate arenas You ll get precise procedures checklists charts and workable tools for development in business and information systems software products user participation and technical systems BOOK JACKET

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