



# Trust Management In Cloud Services

**Zhiqiu Huang,Xingming Sun,Junzhou  
Luo,Jian Wang**



## **Trust Management In Cloud Services:**

Trust Management in Cloud Services Talal H. Noor, Quan Z. Sheng, Athman Bouguettaya, 2014-11-14 This book describes the design and implementation of Cloud Armor a novel approach for credibility based trust management and automatic discovery of cloud services in distributed and highly dynamic environments This book also helps cloud users to understand the difficulties of establishing trust in cloud computing and the best criteria for selecting a service cloud The techniques have been validated by a prototype system implementation and experimental studies using a collection of real world trust feedbacks on cloud services The authors present the design and implementation of a novel protocol that preserves the consumers privacy an adaptive and robust credibility model a scalable availability model that relies on a decentralized architecture and a cloud service crawler engine for automatic cloud services discovery This book also analyzes results from a performance study on a number of open research issues for trust management in cloud environments including distribution of providers geographic location and languages These open research issues illustrate both an overview of the current state of cloud computing and potential future directions for the field Trust Management in Cloud Services contains both theoretical and applied computing research making it an ideal reference or secondary text book to both academic and industry professionals interested in cloud services Advanced level students in computer science and electrical engineering will also find the content valuable

**Credibility-based Trust Management and Discovery of Cloud Services** Talal Hashem Noor, 2013 Cloud computing is gaining a considerable momentum as a new computing paradigm for providing flexible and on demand infrastructures platforms and software as services The trust management of services issues attracted many researchers in the past years However in cloud computing with the highly dynamic distributed and non transparent nature of cloud services this research area has gained a considerable significance Robust trust management approaches will be essential in establishing trust between cloud service consumers and providers and will significantly contribute to the adoption and growth of cloud computing In this dissertation we present a novel approach for credibility based trust management and automatic discovery of cloud services in distributed and highly dynamic environments We first propose a Zero Knowledge Credibility Proof Protocol to prove the credibility of consumers feedback without breaching consumers privacy We then propose an adaptive and robust Credibility Model for assessing the consumers credibility in giving feedback to cloud services To measure how experienced a consumer would be we use the concepts of Consumer Capability and Majority Consensus We further introduce the concepts of Feedback Density and Occasional Feedback Collusion to detect strategic and occasional behaviors of collusion attacks To detect Sybil attacks we introduce the concepts of Multi Identity Recognition and Occasional Sybil Attacks To adjust trust results for cloud services that have been affected by malicious behaviors we introduce the concept of Change Rate of Trust We then propose a scalable Availability Model to manage the availability of the decentralized implementation of the trust management service To share the workload between the trust

management service nodes we use the concept of load balancing thereby always maintaining a desired availability level We introduce the concept of operational power to determine the optimal number of nodes and exploit particle filtering to precisely predict the availability of each node and determine the optimal number of replicas for each node The techniques presented in this dissertation are implemented in Cloud Armor a prototype that provides a set of functionalities to deliver Trust as a Service TaaS Finally we conduct extensive experimental and performance studies of the proposed techniques using a collection of real world trust feedbacks on cloud services We particularly develop a Cloud Service Crawler Engine for cloud services collection The collected datasets include meta data of nearly 6 000 real world cloud services 1 06GB The experimental results shows that our system i is able to effectively distinguish between feedbacks from experienced and amateur consumers ii is more adaptive and robust in trust calculations by effectively detecting collusion and Sybil attacks without breaching consumers privacy no matter attacks occur in a strategic or occasional behavior iii is more scalable and maintains a desired availability level in highly dynamic environments and iv provides an efficient support for identifying collecting validating categorizing and recommending cloud services based on trust

**Trust Management in Mobile Environments: Autonomic and Usable Models** Yan, Zheng, 2013-11-30 This book explores current advances in digital and mobile computing technologies from the user perspective evaluating trust models and autonomic trust management covering the recent history of trust in digital environments to prospective future developments Provided by publisher *Trust & Fault in Multi Layered Cloud Computing Architecture* Punit Gupta, Pradeep Kumar Gupta, 2020-01-20 This book discusses various aspects of cloud computing in which trust and fault tolerance models are included in a multilayered cloud architecture The authors present a variety of trust and fault models used in the cloud comparing them based on their functionality and the layer in the cloud to which they respond Various methods are discussed that can improve the performance of cloud architectures in terms of trust and fault tolerance while providing better performance and quality of service to user The discussion also includes new algorithms that overcome drawbacks of existing methods using a performance matrix for each functionality This book provide readers with an overview of cloud computing and how trust and faults in cloud datacenters affects the performance and quality of service assured to the users Discusses fundamental issues related to trust and fault tolerance in Cloud Computing Describes trust and fault management techniques in multi layered cloud architecture to improve security reliability and performance of the system Includes methods to enhance power efficiency and network efficiency using trust and fault based resource allocation

**Advanced Web Services** Athman Bouguettaya, Quan Z. Sheng, Florian Daniel, 2013-08-13 Web services and Service Oriented Computing SOC have become thriving areas of academic research joint university industry research projects and novel IT products on the market SOC is the computing paradigm that uses Web services as building blocks for the engineering of composite distributed applications out of the reusable application logic encapsulated by Web services Web services could be considered the best known and

most standardized technology in use today for distributed computing over the Internet This book is the second installment of a two book collection covering the state of the art of both theoretical and practical aspects of Web services and SOC research and deployments Advanced Web Services specifically focuses on advanced topics of Web services and SOC and covers topics including Web services transactions security and trust Web service management real world case studies and novel perspectives and future directions The editors present foundational topics in the first book of the collection Web Services Foundations Springer 2013 Together both books comprise approximately 1400 pages and are the result of an enormous community effort that involved more than 100 authors comprising the world s leading experts in this field Developing and Securing the Cloud Bhavani Thuraisingham,2013-10-28 Although the use of cloud computing platforms and applications has expanded rapidly most books on the subject focus on high level concepts There has long been a need for a book that provides detailed guidance on how to develop secure clouds Filling this void Developing and Securing the Cloud provides a comprehensive overview of cloud computing t *Data Privacy and Trust in Cloud Computing* Theo Lynn,John G. Mooney,Lisa van der Werff,Grace Fox,2020-10-13 This open access book brings together perspectives from multiple disciplines including psychology law IS and computer science on data privacy and trust in the cloud Cloud technology has fueled rapid dramatic technological change enabling a level of connectivity that has never been seen before in human history However this brave new world comes with problems Several high profile cases over the last few years have demonstrated cloud computing s uneasy relationship with data security and trust This volume explores the numerous technological process and regulatory solutions presented in academic literature as mechanisms for building trust in the cloud including GDPR in Europe The massive acceleration of digital adoption resulting from the COVID 19 pandemic is introducing new and significant security and privacy threats and concerns Against this backdrop this book provides a timely reference and organising framework for considering how we will assure privacy and build trust in such a hyper connected digitally dependent world This book presents a framework for assurance and accountability in the cloud and reviews the literature on trust data privacy and protection and ethics in cloud computing **Service-Oriented Computing - ICSOC Workshops 2012** Aditya Ghose,Huibiao Zhu,Qi Yu,Alex Delis,Quan Z. Sheng,Olivier Perrin,Jianmin Wang,Yan Wang,2013-04-11 This book constitutes the thoroughly refereed proceedings of the 2012 ICSOC Workshops consisting of 6 scientific satellite events organized in 3 main tracks including workshop track ASC DISA PAASC SCEB SeMaPS and WESOA 2012 PhD symposium track demonstration track held in conjunction with the 10th International Conference on Service Oriented Computing ICSOC in Shanghai China November 2012 The 53 revised papers presents a wide range of topics that fall into the general area of service computing such as business process management distributed systems computer networks wireless and mobile computing grid computing networking service science management science and software engineering **Service Oriented Computing** Gerti Kappel,Zakaria Maamar,Hamid R. Motahari-Nezhad,2011-11-29 This book constitutes the refereed

proceedings of the 9th International Conference on Service Oriented Computing ICSOC 2011 held in Paphos Cyprus in December 2011 The 54 revised papers presented were carefully reviewed and selected from 184 submissions The papers are organized in topical sections on business process modeling quality of service formal methods XaaS computing service discovery service security and trust service runtime infrastructures and service applications      **Trust Management VI** Theo Dimitrakos,Rajat Moona,Dhiren Patel,D. Harrison McKnight,2012-05-17 This book constitutes the refereed proceedings of the 6th IFIP WG 11 11 International Conference IFIPTM 2012 held in Surat India in May 2012 The 12 revised full papers presented together with 8 short papers and the abstracts of 4 keynote talks were carefully reviewed and selected from 51 submissions Building on the traditions inherited from the iTrust and previous IFIPTM conferences IFIPTM 2012 is a multi disciplinary conference focusing on areas such as trust models social economic and behavioural aspects of trust trust in networks mobile systems and cloud computation privacy reputation systems and identity management      **Cloud Security: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2019-04-01 Cloud computing has experienced explosive growth and is expected to continue to rise in popularity as new services and applications become available As with any new technology security issues continue to be a concern and developing effective methods to protect sensitive information and data on the cloud is imperative Cloud Security Concepts Methodologies Tools and Applications explores the difficulties and challenges of securing user data and information on cloud platforms It also examines the current approaches to cloud based technologies and assesses the possibilities for future advancements in this field Highlighting a range of topics such as cloud forensics information privacy and standardization and security in the cloud this multi volume book is ideally designed for IT specialists web designers computer engineers software developers academicians researchers and graduate level students interested in cloud computing concepts and security      **Trust Management IX** Christian Damsgaard Jensen,Stephen Marsh,Theo Dimitrakos,Yuko Murayama,2015-04-29 This book constitutes the refereed proceedings of the 9th IFIP WG 11 11 International Conference on Trust Management IFIPTM 2015 held in Hamburg Germany in May 2015 The 10 revised full papers and 5 short papers presented were carefully reviewed and selected from 28 submissions In addition the book contains one invited paper and 5 papers from a special session on trusted cloud ecosystems The papers cover a wide range of topics including trust and reputation and models thereof the relationship between trust and security socio technical aspects of trust reputation and privacy trust in the cloud and behavioural models of trust      **Cloud Computing** Dinesh G. Harkut,Kashmira Kasat,Saurabh Shah,2019-01-03 In the era of the Internet of Things and Big Data Cloud Computing has recently emerged as one of the latest buzzwords in the computing industry It is the latest evolution of computing where IT resources are offered as services Cloud computing provides on demand scalable device independent and reliable services to its users The exponential growth of digital data bundled with the needs of analysis processing and storage and cloud computing has paved the way for a cheap secure and omnipresent computing

framework allowing for the delivery of enormous computing and storage capacity to a diverse community of end recipients Clouds are distributed technology platforms that leverage sophisticated technology innovations to provide highly scalable and resilient environments that can be remotely utilized by organizations in a multitude of powerful ways The term cloud is often used as a metaphor for the Internet and can be defined as a new type of utility computing that basically uses servers that have been made available to third parties via the Internet

*Cloud Computing and Security* Zhiqiu Huang,Xingming Sun,Junzhou Luo,Jian Wang,2016-01-04 This book constitutes the proceedings of the International Conference on Cloud Computing and Security ICCCS 2015 will be held on August 13 15 2015 in Nanjing China The objective of ICCCS 2015 is to provide a forum for researchers academicians engineers industrial professionals students and government officials involved in the general areas of information security and cloud computing

**Cloud Computing Security** John R. Vacca,2020-11-09 This handbook offers a comprehensive overview of cloud computing security technology and implementation while exploring practical solutions to a wide range of cloud computing security issues As more organizations use cloud computing and cloud providers for data operations the need for proper security in these and other potentially vulnerable areas has become a global priority for organizations of all sizes Research efforts from academia and industry as conducted and reported by experts in all aspects of security related to cloud computing are gathered within one reference guide Features Covers patching and configuration vulnerabilities of a cloud server Evaluates methods for data encryption and long term storage in a cloud server Demonstrates how to verify identity using a certificate chain and how to detect inappropriate changes to data or system configurations John R Vacca is an information technology consultant and internationally known author of more than 600 articles in the areas of advanced storage computer security and aerospace technology John was also a configuration management specialist computer specialist and the computer security official CSO for NASA s space station program Freedom and the International Space Station Program from 1988 until his retirement from NASA in 1995

**Trust Management VII** Carmen Fernandez-Gago,Fabio Martinelli,Siani Pearson,Isaac Agudo,2013-05-29 This book constitutes the refereed proceedings of the 7th IFIP WG 11 11 International Conference on Trust Management IFIPTM 2013 held in Malaga Spain in June 2013 The 14 revised full papers and 9 short papers presented were carefully reviewed and selected from 62 submissions The papers cover a wide range of topics focusing on multi disciplinary areas such as trust models social foundations of trust trust in networks mobile systems and cloud computation privacy reputation systems and identity management

*Trust Management VIII* Jianying Zhou,Nurit Gal-Oz,Jie Zhang,Ehud Gudes,2014-06-23 This book constitutes the refereed proceedings of the 8th IFIP WG 11 11 International Conference on Trust Management IFIPTM 2014 held in Singapore in July 2014 The 12 revised full papers and 5 short papers presented were carefully reviewed and selected from 36 submissions In addition the book contains one invited paper The papers cover a wide range of topics focusing on the following main areas trust and reputation models privacy issues and social and behavioral models of trust the relationship

between trust and security trust under attacks and trust in the cloud environment      *Cloud Computing* Hiran Kamal Kant, 2019-09-20

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With the advent of internet there is a complete paradigm shift in the manner we comprehend computing

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- Discover how Cloud Computing Architecture works
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- Learn about the Virtualization and Service Oriented Architecture SOA concepts
- Learn about the various Cloud Computing applications Platforms and Security concepts
- Understand the adoption Cloud Computing technology and strategies for migration to the cloud
- Case Studies for Cloud computing adoption
- Sub Saharan Africa and India

Who this book is for

This book is intended for students of B E B Tech B Sc M Sc M E and M Tech as a text book

The content is designed keeping in mind the bench marked curriculum of various universities both National and International

The book covers not only the technical details of how cloud works but also exhibits the strategy technical design and in depth knowledge required to migrate existing applications to the cloud

Therefore it makes it relevant for the



beginners who wants to learn cloud computing right from the foundation Aspiring Cloud Computing Researchers Instructors Academicians and Professionals if they are familiar with cloud can use this book to learn various open source cloud computing tools applications technologies They will also get a flavor of various international certification exams available  
 Table of contents1 Foundation of Cloud Computing 2 Cloud Services and Deployment Models3 Cloud Computing Architecture4 Virtualization Technology5 Service Oriented Architecture6 Cloud Security and Privacy7 Cloud Computing Applications8 Cloud Computing Technologies Platform and Services9 Adoption of Cloud Computing10 Model Paper 111 Model Paper 212 Model Paper 313 Model Paper 4 About the authorKamal Kant Hiran is working as Associate Professor Amity University India the second major research theme is focused on the emerging capabilities of cloud computing Mr Mahrishi is rewarded at number of occasions in various domains including Recognition as an active reviewer by Journal of Parallel and Distributed Computing JPDC Elsevier SCI Cloud Computing Enable Technologies and Recognition for outstanding performance in Campus Connect Program by Infosys India His LinkedIn profile <https://www.linkedin.com/in/mehukmahrishi30979026>

Cloud Computing and Security Xingming Sun,Zhaoqing Pan,Elisa Bertino,2018-09-12 This six volume set LNCS 11063 11068 constitutes the thoroughly refereed conference proceedings of the 4th International Conference on Cloud Computing and Security ICCCS 2018 held in Haikou China in June 2018 The 386 full papers of these six volumes were carefully reviewed and selected from 1743 submissions The papers cover ideas and achievements in the theory and practice of all areas of inventive systems which includes control artificial intelligence automation systems computing systems electrical and informative systems The six volumes are arranged according to the subject areas as follows cloud computing cloud security encryption information hiding IoT security multimedia forensics

Cloud Computing Service and Deployment Models: Layers and Management Bento, Al,Aggarwal, A. K.,2012-10-31 This book presents a collection of diverse perspectives on cloud computing and its vital role in all components of organizations improving the understanding of cloud computing and tackling related concerns such as change management security processing approaches and much more  
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