

Cloud Computing Security Analysis: Challenges and Possible Solutions

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Abstract—Cloud Computing is a Service Delivery Mechanism. Computing resources are delivered as a service over the network. These services are Scalable, Autonomous, and Cost effective in nature. Cloud Computing is responsible for the exponential growth of IT Industry. In spite of having so many advantages it has various security challenges that cannot be ignored. In order to make the Cloud Computing all the more secure and reliable some steps has to be taken against the threats of Cloud Computing model. In this paper all the threats related to Cloud Computing is discussed along with their possible solutions.

Keywords—Cloud Computing Security; Cloud Threats; Challenges in Cloud

I. INTRODUCTION

Cloud Computing is the use of computing resources including hardware and software that are delivered as a service over a network. In other words Cloud computing can be defined as a new style of computing in which dynamically Scalable and often virtualized resources are provided as a services over the Internet. With the cloud computing technology, users use a variety of devices, including PCs, laptops, smartphones, and PDAs to access programs, storage, and application-development platforms over the Internet, via services offered by cloud computing providers. Cloud Computing is categorized in two ways one is with deployment model and the other is service delivery model

Deployment models of the cloud are:

Private Cloud: Private Clouds are provided by an organization or their designated service provider and offer a single-tenant (dedicated) operating environment with all the benefits and functionality of elasticity and the accountability/utility model of Cloud.

Public Cloud: Public Clouds are provided by a designated service provider and may offer either a single-tenant (dedicated) or multi-tenant (shared) operating environment with all the benefits and functionality of elasticity and the accountability/utility model of Cloud.

Community Cloud: Community Clouds are provided by a designated service provider related to a particular community and may offer either a single-tenant (dedicated) or multi-

tenant (shared) operating environment with all the benefits and functionality of elasticity and the accountability/utility model of Cloud.

Hybrid Cloud: Hybrid Clouds are a combination of public and private cloud offerings that allow for transitive information exchange and possibly application compatibility and portability across disparate Cloud service offerings and providers, utilizing standard or proprietary methodologies regardless of ownership or location.

Service delivery model of the cloud are:

Software as a Service (SaaS): The capability provided to the consumer is to use the provider's applications running on a cloud infrastructure and accessible from various client devices through a thin client interface such as a Web browser (e.g., web-based email).

Platform as a Service (PaaS): The capability provided to the consumer is to deploy onto the cloud infrastructure consumer-created applications using programming languages and tools supported by the provider (e.g., java, python, .Net).

Infrastructure as a Service (IaaS): The capability provided to the consumer is to rent processing, storage, networks, and other fundamental computing resources where the consumer is able to deploy and run arbitrary software, which can include operating systems and applications.

The contribution of this paper is mainly focused on to improve the security of the cloud environment in order to make the cloud all the more secure and reliable. Through this paper we have tried to convey the idea that the security of the cloud is the responsibility of both provider and consumer depending upon the layer and architecture of the cloud under consideration. We have cited various threats of the cloud and their solutions as well. The specific contributions of this paper are as follows:

- Implementation of Isolation and Segmentation techniques of computing resources can overcome the problem of multi-tenant architecture that shares the same instance of resources with multiple users.

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ICCSM2014-Proceedings of the International Conference on Cloud Security Management ICCSM-2014 Barbara Endicott-Popovsky, 2014-10-07 These Proceedings are the work of researchers contributing to the 2nd International Conference on Cloud Security Management Security ICCSM 2014 being held this year at the University of Reading UK on the 23 24 October 2014 The conference chair is Dr John McCarthy Vice President from the Cyber Security Service Tech UK and the Programme Chair is Dr Barbara Endicott Popovsky from the Center for Information Assurance and Cybersecurity University of Washington Seattle USA As organisations rush to adopt Cloud Computing at a rate faster than originally projected it is safe to predict that over the coming years Cloud Computing will have major impacts not only on the way we conduct science and research but also on the quality of our daily human lives Computation research education and business communities have been exploring the potential benefits of Cloud Computing and the changes these imply Experts have predicted that the move to the cloud will alter significantly the content of IT jobs with cloud clients needing fewer hands on skills and more skills that administer and manage information Bill Gates was recently quoted How you gather manage and use information will determine whether you win or lose Cloud Computing impacts will be broad and pervasive applying to public and private institutions alike

Cyber Security and Threats: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2018-05-04 Cyber security has become a topic of concern over the past decade as private industry public administration commerce and communication have gained a greater online presence As many individual and organizational activities continue to evolve in the digital sphere new vulnerabilities arise Cyber Security and Threats Concepts Methodologies Tools and Applications contains a compendium of the latest academic material on new methodologies and applications in the areas of digital security and threats Including innovative studies on cloud security online threat protection and cryptography this multi volume book is an ideal source for IT specialists administrators researchers and students interested in uncovering new ways to thwart cyber breaches and protect sensitive digital information

New Concepts and Applications in Soft Computing Valentina Emilia Balas, János Fodor, Annamária R. Várkonyi-Kóczy, 2012-07-20 The book provides a sample of research on the innovative theory and applications of soft computing paradigms The idea of Soft Computing was initiated in 1981 when Professor Zadeh published his first paper on soft data analysis and constantly evolved ever since Professor Zadeh defined Soft Computing as the fusion of the fields of fuzzy logic FL neural network theory NN and probabilistic reasoning PR with the latter subsuming belief networks evolutionary computing including DNA computing chaos theory and parts of learning theory into one multidisciplinary system As Zadeh said the essence of soft computing is that unlike the traditional hard computing soft computing is aimed at an accommodation with the pervasive imprecision of the real world Thus the guiding principle of soft computing is to exploit the tolerance for imprecision uncertainty and partial truth to achieve tractability robustness low solution cost and better rapport

with reality In the final analysis the role model for soft computing is the human mind We hope that the reader will share our excitement and find our volume both useful and inspiring **Cloud Computing Security** Dinesh G. Harkut,2020-09-16

Cloud computing is an emerging discipline that is changing the way corporate computing is and will be done in the future Cloud computing is demonstrating its potential to transform the way IT based services are delivered to organisations There is little if any argument about the clear advantages of the cloud and its adoption can and will create substantial business benefits through reduced capital expenditure and increased business agility However there is one overwhelming question that is still hindering the adaption of the cloud Is cloud computing secure The most simple answer could be Yes if one approaches the cloud in the right way with the correct checks and balances to ensure all necessary security and risk management measures are covered as the consequences of getting your cloud security strategy wrong could be more serious and may severely damage the reputation of organisations **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 *Data Security in Cloud Computing, Volume II* Giulio D'Agostino,2019-02-25 This book covers not only information protection in cloud computing architecture and fundamentals but also the plan design and in depth implementation details needed to migrate existing applications to the cloud Cloud computing has already been adopted by many organizations and people because of its advantages of economy reliability scalability and guaranteed quality of service amongst others Readers will learn specifics about software as a service SaaS platform as a service PaaS infrastructure as a service IaaS server and desktop virtualization and much more Readers will have a greater comprehension of cloud engineering and the actions required to rapidly reap its benefits while at the same time lowering IT implementation risk The book s content is ideal for users wanting to migrate to the cloud IT professionals seeking an overview on cloud fundamentals and computer science students who will build cloud solutions for testing purposes *Will Privacy Law in the 21st Century be American, European Or International?* Philipp E.

Fischer,2012-02 Intermediate Examination Paper from the year 2010 in the subject Law Comparative Legal Systems Comparative Law grade befriedigend Queen Mary University of London Centre for Commercial Law Studies CCLS course International Studies in Intellectual Property Law LL M End of first term dissertation language English abstract Rapidly developing technologies are providing new and very powerful means to sort combine and analyse data This data exists in a networked environment thus personal information can be collected and processed on any computer on the Net and is at least in theory accessible by every computer on the Net The development of the Internet has made it possible to transfer this data around the globe at the click of a mouse Fresh business models such as cloud computing the newest driver to illustrate the speed and breadth of the environment allow this data to be processed across national borders on a routine basis Individuals and companies are increasingly immersed in social networking search technologies online commerce and many other activities in which information about an individual is sent worldwide from one point to another These activities became more and more borderless because the Internet as an open window to the world blurs the lines between public and private space firstly since globalisation and the outsourcing of economic actors entrain an ever growing exchange of personal data additionally because of the security pressure in the name of the legitimate fight against terrorism opens the access to a significant number of data to an increasing number of public authorities and finally this is due the tools of the digital society accompany everyone at each stage of life by leaving permanently individual and borderless traces in both space and time Therefore calls of both the public and private sectors for an international legal framework for privacy and data protection have become louder Privacy Com Smart Grid Infrastructure & Networking Krzysztof Iniewski,2013 Describing cutting edge technologies for connecting the electrical power infrastructure to modern computerized communications networks this practical comprehensive resource offers essential information on standardization applications protocols automation architecture and management **Computer Security** Dieter Gollmann,2011-07-08 A completely up to date resource on computer security Assuming no previous experience in the field of computer security this must have book walks you through the many essential aspects of this vast topic from the newest advances in software and technology to the most recent information on Web applications security This new edition includes sections on Windows NT CORBA and Java and discusses cross site scripting and JavaScript hacking as well as SQL injection Serving as a helpful introduction this self study guide is a wonderful starting point for examining the variety of competing security systems and what makes them different from one another Unravels the complex topic of computer security and breaks it down in such a way as to serve as an ideal introduction for beginners in the field of computer security Examines the foundations of computer security and its basic principles Addresses username and password password protection single sign on and more Discusses operating system integrity hardware security features and memory Covers Unix security Windows security database security network security web security and software security Packed with in depth coverage this resource spares no details when it comes to the

critical topic of computer security

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