

# 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 Assessment 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 available<sup>1</sup> 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.

<sup>1</sup><http://cloud-qa.com/security.org>

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web the book of psalms reminds god s people of the central importance of worshipping god and recalling his goodness love and wondrous deeds on their behalf the psalms represent the full range of human emotions many psalms are characterized by doubts and complaints frustrations and pain

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web the book of psalms which is generally believed to be the most widely read and the most highly treasured of all the books

in the old testament is a collection of poems hymns and prayers that express the religious feelings of jews throughout the various periods of their national history the intrinsic beauty of the poems and the sentiments

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web the book of psalms is an ancient anthology of poetic prayers originally written in hebrew it is the first book of the third and final section of the hebrew bible known as ketuvim writings the english term title derives from the greek psalmos meaning song accompanied by a stringed instrument in hebrew the book is known as tehillim

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web psalm the book of psalms who does not walk in the counsel of the wicked or set foot on the path of sinners or sit in the seat of mockers but his delight is in the law of the lord and on his law he meditates day and night he is like a tree planted by streams of water yielding its fruit in season whose leaf does not wither

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web the psalms are the product of many individual collections e g songs of ascents ps 120 134 which were eventually combined into the present work in which one can detect five books because of the doxologies which occur at 41 14 72 18 19 89 53 106 48

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web psalms sits at the very center of the bible the major themes found in psalms are praise god s power forgiveness thankfulness and trust my mouth will speak the praise of the lord and all flesh will bless his holy name forever and ever 145 21

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web chapter 1 bible options text size 1 blessed is the man that walketh not in the counsel of the ungodly nor standeth in the way of sinners nor sitteth in the seat of the scornful 2 but his delight is in the law of the lord and in his law doth he meditate day and night

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web the psalter is fundamentally the hymnbook of god s people it takes the basic themes of ot theology and turns them into song monotheism the one god maker and ruler of all will vindicate his goodness and justice in his own time

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web psalms a collection of lyrical poems is one of only two old testament books to identify itself as a composite work containing multiple authors proverbs is the other some psalms name their author in the first line or title for example mooses wrote psalm 90

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web the book of psalms ספר שירים or ספר שמות lit praises also known as the psalms or the psalter is the first book of the third section of the hebrew bible called ketuvim writings and a book of the old testament

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web the book of psalms the book of psalms the hebrew psalter numbers 150 songs the corresponding number in the septuagint differs because of a different division of certain psalms hence the numbering in the greek psalter which was followed by the latin vulgate is usually one digit behind the hebrew

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web 1 tehillim is also known as psalms tehillim a book slim in size but towering in importance has a special place in the jewish library its hebrew name tehillim תהילים means praises and it contains many praises and supplications to g d in english it is known as psalms from the greek ψαλμοί which means instrumental music

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