



## A SURVEY OF SECURITY LEVEL AGREEMENT VARIABILITY ISSUE ASSOCIATED WITH CLOUD COMPUTING

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**Abstract :** Cloud computing offers the benefits of optimizing exclusive limits to meet challenging requirements. And in recent times security is the huge problem with all forms of technology, and so is the case with cloud computing. The Cloud Security System may be evaluated based upon the three types of elements- Confidentiality, Integrity and Availability (CIA). It also plays the operations on database and additionally give back the output to the keeper (owner) of the database. The main use of cloud security is that it keeps your data secure, meet compliance necessities, save money and scale instantly. Cloud compliance permits the knowledge and robust manipulate to keep the data secure and protected inside the cloud. The level of storing facts on the cloud is increasing each day and safety measures are also being upgraded to the more recent designs and plethora of techniques are being added each day additionally like retina scanner and biometric sensor with the improvements of the era.

**Keywords--** Availability, Biometric sensors, Cloud compliance, Cloud computing, Confidentiality, Integrity, Security

### I. INTRODUCTION

Cloud Computing is the method of handing over of various sort of resources (Computing offerings) like network, storage, servers, database, intelligence and analytics over the internet to provide faster and innovative services and affords a shared pool of configurable computing assets, i.e., provide with minimum management. We ought to simply pay for cloud services that we're using. So it lets you operate the cloud services at minimum expense and scale the commercial enterprise as per the needs of the client. Cloud computing offers a real risk for the scalability and flexibility through its impressive benefits which might be tested already among its customers and workers [1]. The extra blessings of cloud computing have enabled the customers of the basis-primarily based environments to shop the large price of related hardware and software maintenance [2].

The (service-level agreement) SLA agreement is likewise performed between the customers and company specialist. There may be several issues that are nonetheless likely to appear like (threatening event that may be occurred later). The CIA likewise discusses things that improve the precise generation, destruction, distribution and storage for perfect protection.

In Cloud computing there's no failure hazard of power supply and the control of information throughout any disciplinary motive via the human intervention and natural screw ups occurs suddenly as it makes use of the various facts replication copies on the cloud like RAID technology and lots of greater strategies so the purchaser's information can be secure and correct. The large scope for innovation and development in cloud generation has furnished it to be the most suited and apt answer. In Cloud computing all things such as maintenance and hardware are supplied and preserved by cloud computing dealer. The seller will charge the customer as per usage [3].

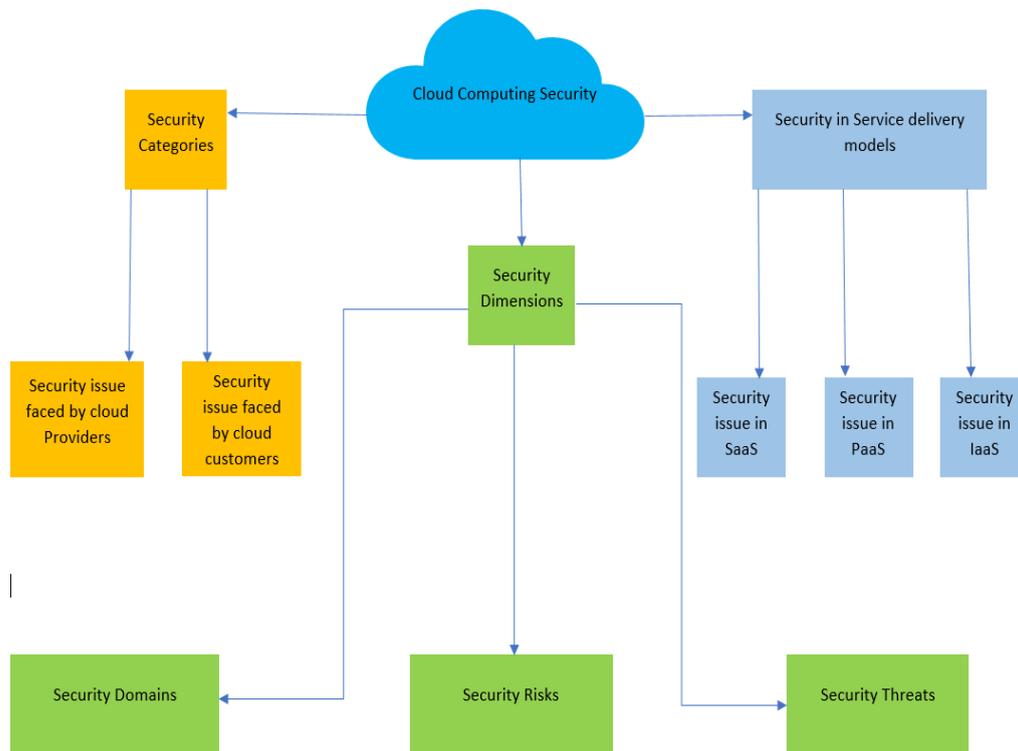
Cloud computing is signaling as a virtual pool of assets vocalize over the internet the following are the characteristics of cloud computing:

Provides on demand self-service where user can manage the computing task without interaction from service providers.

- Provide the resource pooling facility all the resources are on network.
- Scalability and rapid elasticity are also providing so that client can go with their particular needs.

Unlikely there are three services are provided in the cloud computing like platform as a service (force.com, google app engine, open shift), infrastructure as a service (AWS, CISCO metapad, Azure), software as a service (drop box, Google drive). The deployment models are public (the deployment models are freely for public use), private (only for organisation), community cloud (shared by organisation with requirements and policies), and hybrid cloud (mixing of public and private clouds) [4, 5].

In this we contain the problem statement of the cloud computing security issues are more reported in the cloud computing it is the important concerns according to the large number of cases the management for maintaining privacy from malicious and vulnerability attacks and the protect the data from the threat is a big issue in the cloud computing security issues [6].

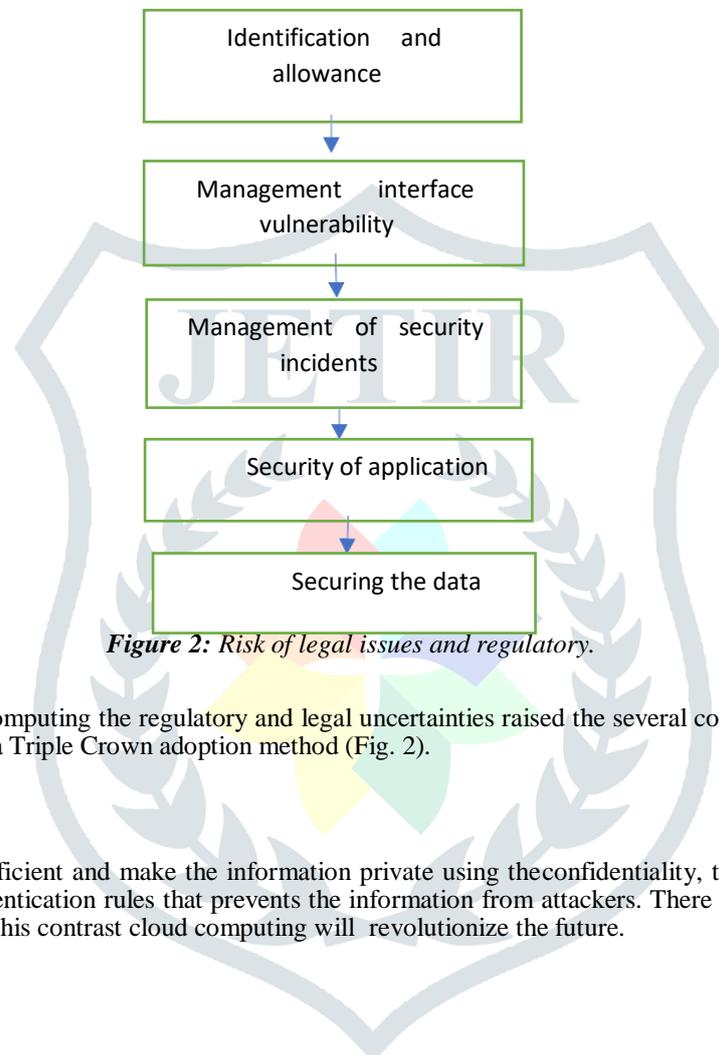


**Figure 1:** Security issue in cloud computing

In security unthinkable and unmistakable measures are being taken to manage the security issues problems in real time. The client cannot be depending on the organisation specialist fully because there is no complete assurance for security. The security concern influence both the specialist and client co -op this enables a test guarantee appropriate reinforcement and recuperation system for information and verification of clients just as information openness (Fig. 1)

**DATA ACCESS, CONTROL AND PRIVACY**

If only once it gets misplaced or lose control over then the security from admin side in danger the most upcoming challenge within the admin knowledge of info. Is the worst in comparison to the actual fact that even confidential data is lawlessly accessible due to the moderate access control within the cloud in terms of privacy the computing make difficult for clients to have full; control of the data that are stored in the datacentres the privacy surpass the issues of confidential information from the user perspective. Also, software insecurity provides the complex and unmeasurable problems.

**RISK OF LEGAL ISSUES AND REGULATORY**

**Figure 2:** Risk of legal issues and regulatory.

Within the adoption of cloud computing the regulatory and legal uncertainties raised the several considerations these and a binding agreement is indispensable for a Triple Crown adoption method (Fig. 2).

**CONCLUSION**

In this study we propose an efficient and make the information private using the confidentiality, to ensure the confidentiality the code is making with new authentication rules that prevents the information from attackers. There are standard and the many rules and regulations worldwide in this contrast cloud computing will revolutionize the future.

**REFERENCES**

- [1] C. Erol, S. Gulsecen, E. Karatas & Z. Ozen. (2012). Cloud computing and some scenarios for its applications in universities. *European Researcher*, 30(9), pp. 1515-1526,
- [2] K. Goyal & P. Supriya. (2013). Security concerns in the world of cloud computing. *International Journal of Advanced Research in Computer Science* 4(2), pp.230-234,
- [3] M. Ahmad, M. Chong & A. Hamid. (2014). Enhancing trust management in cloud environment. *Procedia - Social and Behavioral Sciences*, pp. 314-321, Available at: <https://doi.org/10.1016/j.sbspro.2014.03.682>.
- [4] M. G. Morris, M. G. Davis & F. D. Davis. (2013). User acceptance of information technology: Toward A unified view. *MIS Quarterly*, 27(3), pp. 425-478, Available at: <https://doi.org/10.2307/30036540>.
- [5] Shamneesh Sharma & Keshav Kishore. (2017). Data dissemination algorithm using cloud services: A proposed integrated architecture using IoT. *International Conference on Innovative Research in Engineering, Science & Technology*
- [6] Keshav Kishore & Shamneesh Sharma. (2013). Information security & privacy in real life - threats & mitigations: A review. *International Journal of Computer Science & Technology*, 4(Special Issue 3), pp. 38-41