AUTOCORRECTION AND ATTESTATION BASED INTEGRITY VERFICATION STRATEGY FOR CLOUD DATA

T.K.P.Rajgopal[1], T.Mohnapriya[2],V.Naveenprashaath[3],S.Revathi[4]
*[1]Computer science of engineering,kathir college of engineering*
[2,3,4] Information technology, Kathir college of engineering

Abstract: The aim of proposed system is to solving efficiently the problem of data deduplication with differential privileges in cloud computing and also provides the public deduplication called as Auto correction and Attestation based Integrity .In a hybrid architecture the public cloud and a private cloud. Unlike existing data deduplication systems can be done by the user itself. The data owners only outsource their data storage by utilizing public cloud while the data operation is managed with less security and privacy. A new deduplication system supporting differential duplicate check and attestation scheme is proposed. The user is allowed to perform the duplicate check and deduplicate process with attestation for files marked with the corresponding attestation privileges.

Keywords: deduplication, security, attestation, corruption

I.   INTRODUCTION

Cloud computing is computing of demand and is a kind of Internet-based computing. It can shared resources, information can be in the computer and any devices on-demand. The Goal is to allow users to take benefit to their in the technology, with no need of in-depth knowledge about or expertise with each one of them.Cloud computing is a combination of data mining and grid computing Cloud computing also leverages concepts from utility computing can be used to provide metrices . Cloud computing concepts based on this paper of security. Once user can share the data in the cloud. The user not only to share the data, modify the data and it also share the latest update version data can be done on the cloud. ITemployee can speak about cloud computing, where some services can be used for us and note they have some amount of vague and such things are defined and some overlap between them. There are three types of cloud computing are Infrastructure as a service and platform and services means services made available to users on demand via the Internet from a cloud computing services can have to provide the company own on-premises servers. Cloud services are designed to easy and scalable for resources and services, and are fully managed by a cloud services .the cloud can used dynamic to meet the service provider supplies their software also necessary and the hardware , there's no need for a company to provision or deploy its own resources and also IT employee can be used services. Examples of cloud services include online data storage and backup solutions, email services in email and database can be managed technical support services and more.
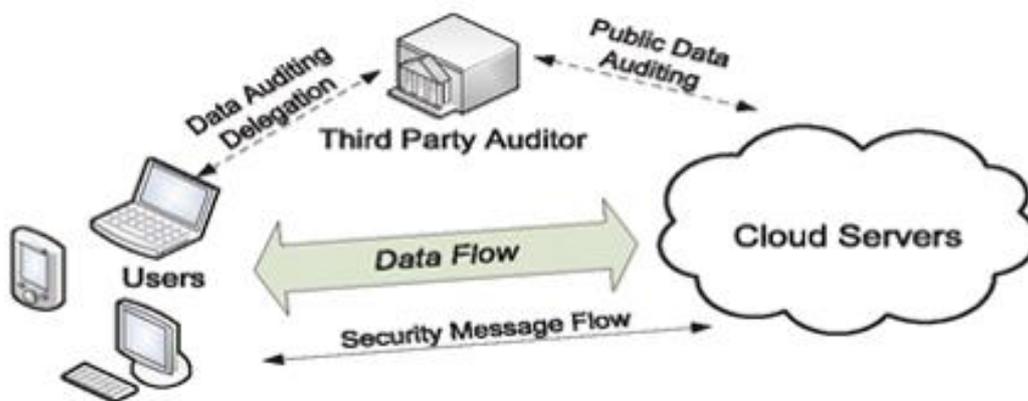
II. OVERVIEW

In this autocorrection can be done on the download blocks. This is done before to download the files the following process are download, verify, re-signature and upload the files are done on the previous project but in this autocorrection and attestation method can be used to download the block to be verify because there is a corruption or not. if there is any corruption on this file ,they can be use of cache memory and replace the content of the corrupted file and they get the reason of the corrupted file based. The attestation method can be performed after the autocorrection and this method can be used to signed on that can be placed in the header block.

III. ANALYSIS

The user can be already used the sign in the blocks, once a user in the group is revoked, the cloud is able to resign the blocks, with a re-signing key. the cloud, which is not in the same trusted domain with each user.It takes large space when resigning the same block with each user. The disadvantagesof exiting system is In a straightforward method the cost of exiting user a huge amount of communications and resources.The number of resigning blocks is quite large. The membership of the group is frequently changes. In this project, the proposed system is auto correction and attestation techniques have been proposed to ensure the integrity of shared cloud data. the cloud provided result quality by replacing bad results produced integrity test or malicious attackers with good results. It provides auto correction to automatically identifies the malicious users who spoil the integrity of the shared data. Data freshness is guaranteed. Auto data correction and data management Malicious user identification.

IV. PROBLEM STATEMENT

Every time data owner should audit the data to know the integrity.After downloaded the full data integrity will be verified so that data usage is increased.Public may not know the pure data or impure data.

V. IMPLEMENTATION

It is important stage of implementation process to be in the successful system and giving the user's confidence that system will be efficient process . Implementation of a modified application to replace an existing one. This process will be perform easier and there are no major changes in the system. Each program is test and develop the data and has verified that this program linked together to specify the coding, the computer system and its environment is tested to the satisfaction to the customer. the system can be approved and proved to be satisfactory for the user. And so the system can be produced fast and that the procedure is included so that the user can understand the some operations can be clear and fastly. Initially as a first step the executable form of the application is to formed and to be placed in the server then is to accessible for all the user and the server is to be

connected in the cloud and then final stage the system which provides components and the operating procedures of the system.

VI.   FUTURE ENCHANCEMENT:

De-duplication is a technique which saves storage space and bandwidth requirements. This technique is implemented in the cloud network of amazon, platform of zogo is another example. A small sub set of the functionalities were successfully implemented. Few of the enhancements that will be desired for the present application are, First the De-duplication of files is done for every user bucket. It would like to extend to the entire cloud. Keeping each user bucket as a physical virtualization for only user images and not for the data. Secondly,Concurrent uploads from many node controllers.Metadata structures are maintained as files in this version of the application. Going forward, metadata can be stored in a database for easy querying.

VII.   CONCLUSION

In this system, we presented the construction of an efficient Cloud architecture scheme with auto correction algorithm for distributed cloud storage. We optimized the probabilistic query and periodic verification to improve the audit performance. In this system clearly demonstrated that our approaches only introduce a small amount of computation and communication in the extreme.Then the solution can new candidate for data integrity verification in outsourcing data storage systems.

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