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DYNAMIC AND PUBLIC AUDITING WITH FAIR ARBITRATION FOR CLOUD DATA

ABSTRACT

Cloud users no longer physically possess their data, so how to ensure the integrity of their outsourced data becomes a challenging task. Recently proposed schemes such as “provable data possession” and “proofs of retrievability” are designed to address this problem, but they are designed to audit static archive data and therefore lack of data dynamics support. Moreover, threat models in these schemes usually assume an honest data owner and focus on detecting a dishonest cloud service provider despite the fact that clients may also misbehave. This paper proposes a public auditing scheme with data dynamics support and fairness arbitration of potential disputes. In particular, we design an index switcher to eliminate the limitation of index usage in tag computation in current schemes and achieve efficient handling of data dynamics.

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EXISTING SYSTEM

DATA outsourcing is a key application of cloud computing, which relieves cloud users of the heavy burden of data management and infrastructure maintenance, and provides fast data access independent of physical locations. However, outsourcing data to the cloud brings about many new security threats. Firstly, despite the powerful machines and strong security mechanisms provided by cloud service.providers (CSP), remote data still face network attacks, hardware failures and administrative errors. Secondly, CSP may reclaim storage of rarely or never accessed data, or even hide data loss accidents for reputation reasons. As users no longer physically possess their data and consequently lose direct control over the data, direct employment of traditional cryptographic primitives like hash or encryption to ensure remote data's integrity may lead to many security loop.

DISADVANTAGES

- providing data dynamics support is the most challenging. This is because most existing auditing schemes intend to embed a block's index i into its tag computation, which serves to authenticate challenged blocks.
- Insert or delete a block, block indices of all subsequent blocks will change then tags of these blocks have to be re-computed. This is unacceptable because of its high computation overhead.

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PROPOSED SYSTEM

This paper proposes a new auditing scheme to address the problems of data dynamics support, public verifiability and dispute arbitration simultaneously. We solve the data dynamics problem in auditing by introducing an index switcher to keep a mapping between block indices and tag indices, and eliminate the passive effect of block indices in tag computation without incurring much overhead. We extend the threat model in current research to provide dispute arbitration, which is of great significance and practicality for cloud data auditing, since most existing schemes generally assume an honest data owner in their threat models.

ADVANTAGES

- To provide an integrity auditing scheme with public verifiability, efficient data dynamics and fair disputes arbitration.
- To eliminate the limitation of index usage in tag computation and efficiently support data dy

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SYSTEM REQUIREMENTS:**HARDWARE REQUIREMENTS:**

System : Pentium IV 2.4 GHz.

Hard Disk : 40 GB.

Floppy Drive : 1.44 Mb.

Monitor : 15 VGA Colour.

Mouse : Logitech.

Ram : 512 Mb.

SOFTWARE REQUIREMENTS:

Operating system : Windows XP/7.

Coding Language : ASP.net, C#.net

Tool : Visual Studio 2010

Database : SQL SERVER 2008

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