

Dynamic outsource auditing services cloud storage Based on Batch –Leaves-Authenticated Merkle Hash Tree

Abstract:

Cloud computing encourages users to outsource their data to cloud storage. Data outsourcing means that users lose physical autonomy on their own data, which makes remote data integrity verification, become a critical challenge for potential cloud users. To free user from the burden incurred by frequent integrity verifications.

Existing system:

The first outsourced auditing scheme, called Fortress, was proposed to protect against any dishonest entity and against collusion among any two entities. However, Fortress can only support static data, which is a limitation in practice. Dynamic updates are crucial in many practical cloud storage applications, where user expects that outsourced data can be remotely updated, by modifying, inserting, or deleting the target data block in cloud, while maintaining the normal operation of the auditing protocols. The key to dynamic updates is the appropriate authenticated data structure. Although existing auditing schemes have proposed various authenticated data structure for dynamism, such as Merkle Hash Tree or Skip List, the direct application of these dynamic approaches under the outsourced auditing model will lead to security or efficiency problems.

Disadvantages:

1. Existing applications security standards are at low level.
2. These applications are valid for static applications but we need to update cloud data dynamically this is not possible here.

Proposed system:

In this paper, we propose a new authenticated data structure that is based on Merkle Hash Tree and referred to as BLA-MHT. By supporting the batch-verifications upon multiple leaf nodes,

this novel data structure is more efficient than existing MHT-based approaches, and thus is appropriate for the dynamic outsourced auditing system. Based on BLA-MHT, we also propose a new scheme to achieve both dynamic updates and outsourced auditing.

Advantages:

1. compared to existing systems security levels has been improved a lot.
2. These applications support for the dynamic operations of the data.

SYSTEM REQUIREMENTS

H/W System Configuration:-

- Processor - Pentium –III
- RAM - 256 MB (min)
- Hard Disk - 20 GB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

S/W System Configuration:-

- Operating System : Windows95/98/2000/XP
- Application Server : Tomcat5.0/6.X
- Front End : HTML, Jsp
- Scripts : JavaScript.
- Server side Script : Java Server Pages.
- Database : MySQL 5.0
- Database Connectivity : JDBC

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