

An Efficient public Auditing Protocol with Novel Dynamic structure for Cloud Data

Abstract:

Cloud storage, which is one of various cloud services, serves as a practical tool and has made data outsourcing to the cloud an emerging trend. The rapid development of such a cloud service has various causes such as its on demand outsourcing function, ubiquitous network access, and location-independent resources. For instance, data are no longer local with cloud storage, ensuring that data owners (DOs) do not have to worry about software or hardware failures.

Existing system:

For data auditing in a cloud, many protocols have been proposed in the past few years and can be divided into private protocols and public protocols. In the model of private auditing protocols, the participating entities are the DO and the CSP. Only the DO possesses the private key, and the entire auditing process is executed by the owner. However, these solutions increase the burden on DOs, who are not equipped with sufficient computing resources. Moreover, the fatal flaw is that the auditing results are unconvincing because the DO and the CSP distrust each other, and the DO is the sole source of the verification results.

Disadvantages:

1. Security levels are not good; there is chance for leakage of the data.
2. This application is useful for single user requests not for multiple users.

Proposed system:

In the proposed system we propose a public auditing protocol with a novel dynamic structure composed of a doubly linked info table and a location array. Compared with the state of the art, an appropriate relationship between the DLIT and the LA makes our protocol perform better both in terms of efficient dynamic support and reduced overhead. Moreover, some basic challenges in cloud auditing, such as batch auditing, block less verification and lazy update, have been overcome by our protocol.

Advantages:

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1. in our scheme security levels improved for restricting the data leakage.
2. Basic challenges in cloud computing has overcome in our scheme.

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