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Project topic : Enabling public auditability and storage security in Cloud computing

ENABLING PUBLIC AUDITABILITY AND STORAGE SECURITY IN CLOUD COMPUTING

ABSTRACT

In this project we propose public audit ability or dynamic data operations. We first identify the difficulties and potential security problems of direct extensions with fully dynamic data updates from prior works .in particular, to achieve efficient data dynamics, we improve the existing proof of storage models by manipulating the classic merkle hash tree construction for block tag authentication. Cloud Computing has been envisioned as the next-generation architecture of IT Enterprise. It moves the application software and databases to the centralized large data centers, where the management of the data and services may not be fully trustworthy. This unique paradigm brings about many new security challenges, which have not been well understood. This work studies the problem of ensuring the integrity of data storage in Cloud Computing. In particular, we consider the task of allowing a Third Party Auditor (TPA), on behalf of the cloud client, to verify the integrity of the dynamic data stored in the cloud. The introduction of TPA eliminates the involvement of the client through the auditing of whether his data stored in the cloud are indeed intact, which can be important in achieving economies of scale for Cloud Computing. The support for data dynamics via the most general forms of data operation, such as block modification, insertion, and deletion, is also a significant step toward practicality, since services in Cloud Computing are not limited to archive or backup data only.

PROJECT DESCRIPTION

MODULE LIST

1. Cloud storage server
2. TPA server
3. Clients Computer
4. Data Transfer

SOFTWARE INTERFACE:

Operating System	:	Windows 7/8
Server-Side Script	:	ASP.NET 2010
Client-Side Script	:	HTML
Back-End	:	SQL SERVER