Privacy-Preserving and Public Auditing for Cloud Storage Applying Regeneration-Code-based using RSA Algorithm

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Abstract
The cloud has measure issues of bulk data storage, outsourced data corruptions, fault tolerance together with data integrity check and failure reparation. Another problem is that user need to always stay online for the purpose of continuous auditing of his own data which is not practically possible, especially for long-term archival storage. This might result in data owner’s loss of ultimate control over the fate of their outsourced data [1]. Thus, the correctness, accessibility and reliability of the data are being put at risk. To solve the above problem of failed auditing in the absence of data owners, system introduce a proxy server, which is privileged to regenerate the authenticators, into the traditional public auditing system. This arrangement helps to outsource the burden of continuous online availability of user for auditing purpose to proxy server. In addition to this systems introduce regenerating-code-based cloud storage to handle the problem of data integrity check and failure reparation.

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**Index Terms**

Computer Science  
Security

**Keywords**

Cloud Storage  
Regenerating Codes  
Public Audit  
Privacy Preserving  
Authenticator  
Regeneration  
Proxy  
Privileged  
Provable Secure.