Privacy-Preserving Public Auditing For Shared Data In The Cloud Using Batch Auditing

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Abstract— In this paper, we propose a privacy-preserving public auditing for shared data in the cloud using batch auditing. We utilize ring signatures to construct homomorphic authenticators, so that a public verifier is able to audit shared data integrity without retrieving the entire data, yet it cannot distinguish who is the signer on each block. To improve the efficiency of verifying multiple auditing tasks based on batch auditing mechanism. The recent proposal does not support traceability. Now we improve the traceability and also data freshness. In addition, our mechanism is able to perform an efficient public auditing mechanism with the capabilities of preserving identity privacy, supporting traceability and data freshness.