PRIVACY-PRESERVING PUBLIC AUDITING FOR SHARED DATA IN THE CLOUD

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ABSTRACT

With billow abstracts services, it is commonplace for abstracts to be not alone stored in the cloud, but as well aggregate beyond assorted users. Unfortunately, the candor of billow abstracts is accountable to skepticism due to the actuality of hardware/software failures and animal errors. Several mechanisms accept been advised to acquiesce both abstracts owners and accessible verifiers to calmly analysis billow abstracts candor after retrieving the absolute abstracts from the billow server. However, accessible auditing on the candor of aggregate abstracts with these absolute mechanisms will accordingly acknowledge arcane information-identity privacy-to accessible verifiers. In this paper, we adduce a atypical privacy-preserving apparatus that supports accessible auditing on aggregate abstracts stored in the cloud. In particular, we accomplishment ring signatures to compute analysis metadata bare to analysis the definiteness of aggregate data. With our mechanism, the character of the attest ant on anniversary block in aggregate abstracts is kept clandestine from accessible verifiers, who are able to calmly verify aggregate abstracts candor after retrieving the absolute file. In addition, our apparatus is able to accomplish assorted auditing tasks accompanying instead of acceptance them one by one. Our beginning after-effects authenticate the capability and ability of our apparatus if auditing aggregate abstracts integrity.

KEYWORDS: Public Auditing, Privacy-Preserving, Shared Data, Cloud Computing