A Novel Privacy Preserving Public Appraising Mechanism for Shared Data Distribution in the Cloud

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Abstract

Cloud server is a model for enabling suitable, on-demand network access to a shared pool of resources that can be rapidly provisioned and released with cloud service provider communication. However, public appraising for such shared data while conserving uniqueness of system leftovers to be an open challenge. In this paper, the first privacy-conserving mechanism is proposed that allows public appraising on shared data stored in the cloud. In this, ring signature mechanism is used to calculate the authentication information needed to audit the integrity of shared data. With the help of this mechanism, the uniqueness of the signer on each block in shared data is kept secret from a third party auditor (TPA), who is still able to authenticate the integrity of shared data without accessing the complete file.

References

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Index Terms

Computer Science
Security

Keywords
Cloud server  public appraising  shared data  integrity