Security Provision for Data Stored in Cloud using Decentralized Access Control with Anonymous Authentication

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Abstract

As we store more sensitive data on cloud and also share it with third party. Though cloud storage provides on-demand services to multiple users but there are several issues related security. So in this paper we are trying to address security related issues of cloud, so that users can store any confidential data on cloud without any fear and enjoy the services provided by cloud. In this paper we have proposed a new decentralized access control mechanism to secure data stored on cloud. This proposed scheme will support anonymous authentication scheme. In that system will initially verifies the identity of the user .Here Authentication and access control schemes are decentralized unlike other systems which are centralized. Also here we are storing access policies on cloud in hash codes so that we can hide it from third parties. The proposed scheme also addresses the problem of replay attack and user revocation. So the proposed scheme is more robust than the existing scheme as it doesn’t store the authentication information on cloud itself.

References


Index Terms

Computer Science

Security

Keywords
Cloud computing, Privacy Preservation, Access control, Anonymous Authentication, Decentralized