

Client Centric FS and BioCRYP for Secure Access over Outsourced Data in Cloud Server

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Abstract

Cloud computing is emerging as the most suitable paradigm for individuals and organizations to access inexpensive, scalable, ubiquitous, and on-demand computing resources, applications, and data storage services. With the growing popularity of cloud computing, the number of enterprises and individuals shifting toward the use of cloud has increased rapidly. As a result, a vast amount of important personal information and critical organization data, such as personal health records, government documents, and company finance data, etc., are transmitted across the Internet and stored in cloud servers. However, outsourcing sensitive data suffers from critical security threats, privacy, and access control problems. These are common concerns of organizations and individuals using cloud services. When data owners migrate their sensitive data to the cloud, they lose an element of control over their data. With this in mind, this project presents a user-side fingerprint based encrypted file system named Client Centric FS. Moreover, the newly proposed Biometric based cryptographic protocol BioCRYP that uses symmetric encryption algorithms in order to improve the security and performance of the personal and shared files that are outsourced.