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RESEARCH ARTICLE

Distributed Auditing for user data in the Cloud

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Abstract— Cloud computing is one of today's most exciting technology because of its cost-reducing, flexibility, and scalability. For infrastructure of cloud computing data security refers to policies, technologies, and controls deployed to protect data, applications. In this paper we discuss the evolvement of cloud computing paradigm and present a framework for secure cloud computing through accountability. Accountability is likely to become a core concept in the cloud. To address this problem, we propose a decentralized information accountability framework. We propose a logging mechanism along with user's data and policies. Whenever a user logs into the system, then a log record will be generated and those log records will be stored in a JAR (Java Archives) file. We propose a single JAR which has two functionalities like matching policies and providing/decrypting the file if that policy is matched. One more approach we are providing i.e. ABE technique which creates attributes and ensures security for user's related information. We provide extensive experimental studies that demonstrate the efficiency and effectiveness and the proposed approaches.

Key Terms: - Cloud computing; Accountability; ABE

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