Securing Shared Data in Cloud Computing by using Cryptographic Schemes

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Abstract

Sharing data using cloud computing can be a good solution to profit from reduced costs, scalability, flexibility and more advantages that user can get from the cloud infrastructure. But when the object shared consists of sensitive or personnel data, the security concerns increase. Problems related to the lack of data confidentiality and integrity represent the number one problem encountered in cloud infrastructure and that restrains users and a number of organizations to benefit from the cloud’s services. In this paper we discuss the requirements needed to secure data in cloud environment and we propose a new approach to enhance the security of the data shared in cloud storage. Our method is based on cryptographic models. It is confidential, flexible and it reduces time of computation by adopting simple and efficient key management process and encryption schemes.

References

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Index Terms

Computer Science Information Sciences

Keywords

Cloud Computing, Security, Data Sharing, Cryptography, Cloud Storage.