Abstract

Cloud computing is the future of the next generation architecture of IT solutions. Cloud provides computing resources on subscription basis over the internet. The Cloud data storage network includes a Third Party Auditor which has the power and capabilities that a client does not have. It is a trusted entity that has the access to, other than cloud and check on the exposed risk involved in cloud storage data on behalf of the client. In this paper, the problem of data security and integrity has been presented. Also, a scheme to provide maximum data integrity. In proposed scheme, existing fully homomorphic encryption is integrated with TPA auditing system is proposed. This scheme can audit data integrity without decrypting it.

References

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Index Terms

Computer Science
Security

Keywords
TPA  Cloud Auditing  Data security and Integrity  Fully Homomorphic Encryption