Abstract

The overwhelming success and the rapid growth of the Internet change our lives; the way we interact, learn and work. Now a day's most of the organizations including government deliver their services through internet. E-governance is the application of information and communication technologies to exchange information between government and the citizens, government and business organizations and between government organizations. Cloud computing is a new way of accepting and providing services over internet. Cloud based e-governance system provides many benefits to Government like reduced cost, distributed storage of data, availability of resources at lower cost, manages security, scalability,
accountability and modifiability. Security is one of the crucial issues in Cloud based E-governance systems. As the number of services provided by the E-governance system to the users increases, a high level of E-Government security is required. Security of information is concerned with the properties like confidentiality, integrity, authentication, availability, and reliability. In an E-governance system databases contain all the government information so that it should be kept very confidentially. The government databases deployed to the cloud contain critical and private information. The databases are uploaded to the storage facility provided by the cloud service provider, who has higher priority to access the data. Since data are exposed to a third party, several security threats may occur. For ensuring confidentiality of government data, they are encrypted before storing in the cloud. This paper proposes a new mechanism for database encryption with flexible data granularity and safe key management for high security and better performance for database access.

References

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Index Terms

Computer Science

Hpc Applications

Keywords
Security of Data in Cloud based E-Governance System

Cloud Computing  E-governance  Security  Confidentiality And Encryption