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SURVEY ARTICLE

A e-Contract Based Business Model for Cloud Computing

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Abstract: In cloud computing environment, enterprises usually use business model for deploying and executing their various business operations. In cloud computing business model, the communication between the storage service and encryption/decryption service may lead to unauthorized access or disclosure of user data by any internal crew or administrative hacker. In this study paper, we introduce a secure business model for cloud computing, based on separating the storage service from the encryption/decryption service. There is no communication between the storage service and the encryption/decryption service. The storage service will store only encrypted data, which is provided by the storage provider. The encryption/decryption service will encrypt/decrypt the plain user data and it is provided by the encryption/decryption service provider. After cryptographic operations, the encryption/decryption service will delete all the user data. In this proposed business model, a secure channel is deployed to preserve the integrity of messaging between the services. The communication connection establishment between the intra-cloud or inter-cloud services is provided as a trusted third party service provider. To illustrate the proposed business model, a CRM application is used.

Keywords: Cloud Computing; Service Level Agreements; Encryption and Decryption Cloud Service; Data Privacy Protection; Security Connectivity.

Full Text: <http://www.ijcsmc.com/docs/papers/ICMIC13/ICMIC13S13.pdf>