Secure Data Retrieval based on Attribute-based Encryption in Cloud

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Abstract

Cloud computing plays important role in the development of IT industry. It can help a small organization to headway their business. An organization can progress from small scale industry to large scale industry. “Cloud” basically internet based data, network, resource storage. Meanwhile security, integrity, confidentiality requirement need must be achieve by cloud implementation. Attribute based encryption policy provides efficient encryption of data. Hierarchical implementation implies that an organization able to assign different privileges to users according to their role, using a top to bottom approach. Cloudsim has made virtual environment of cloud for developers. It connects to virtual resources according to user requirement of network resources. This paper describes the implementation of Hierarchical attribute base encryption scheme on cloudsim tool. Implementing attribute based encryption where rijndael algorithm used to encrypt data. Also paper include efficiency of encryption and decryption scheme used in implementation

References


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Index Terms

Computer Science Security

Keywords

Encryption, Security, multiuser access, Ciphertext Policy Attribute based encryption (CP-ABE), Cloudsim, cloud computing, data sharing