Cloud computing plays an 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 achieved by cloud implementation. Attribute based encryption policy provides efficient encryption of data. Hierarchical implementation implies that an organization can 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.


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**Index Terms**

Computer Science  
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**Keywords**

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