Abstract

Nowadays, Information Technology group is undergone significant shift in computing and protecting business value by using well-built, workable and authentic replacement of Cloud Computing. Cloud Computing is a contemporary computational architecture that provides another type of model. Cloud Computing provides substantial measure of computing, storage services, Data classification, IT assets and data management and cyber security. An unauthorized user may be accessed this data through virtual machines. This uncertainty creates a big problem. Cloud Computing is used in both public and private sector due to its accessibility, availability, and cost effectiveness. However, security of data transfer between client and server is still a big problem. Many scientists and researchers have brought up another cryptographic subject in Quantum Computing which is called Quantum Key Distribution (QKD). The first QKD protocol is BB84 that was presented by Charles Bennett and Gilles Brassard in 1984 [4]. This paper proposes as a service of Advanced Quantum Cryptography in Cloud Computing. This paper discusses the security issues of cloud computing and the role of cryptography technique in Cloud computing to enrich the Information Security [13].
References


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Securing Cloud Computing Environment using Quantum Key Distribution

Index Terms

Computer Science
Distributed Systems

Keywords

Cloud Computing, Quantum Key Distribution, Information Security, Cryptography, BB84.