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PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

KSF-OABE-OUTSOURCED ATTRIBUTE BASED ENCRYPTION WITH KEYWORD SEARCH FUNCTION FOR CLOUD STORAGE

ABSTRACT:

Cloud computing becomes increasingly popular for data owners to outsource their data to public cloud servers while allowing intended data users to retrieve these data stored in cloud. This kind of computing model brings challenges to the security and privacy of data stored in cloud. Attribute-based encryption (ABE) technology has been used to design fine-grained access control system, which provides one good method to solve the security issues in cloud setting. However, the computation cost and cipher text size in most ABE schemes grow with the complexity of the access policy. Outsourced ABE(OABE) with fine-grained access control system can largely reduce the computation cost for users who want to access encrypted data stored in cloud by outsourcing the heavy computation to cloud service provider (CSP). However, as the amount of encrypted files stored in cloud is becoming very huge, which will hinder efficient query processing. To deal with above problem, we present a new cryptographic primitive called attribute-based encryption scheme with outsourcing key-issuing and outsourcing decryption, which can implement keyword search function (KSF-OABE). The proposed KSF-OABE scheme is proved secure against chosen-plaintext attack (CPA). CSP performs partial decryption task delegated by data user without knowing anything about the plaintext. Moreover, the CSP can perform encrypted keyword search without knowing anything about the keywords embedded in trapdoor.

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EXISTING SYSTEM:

Out Sourced Attribute Based Encryption with Keyword Search Function for Cloud Storage, In this case, the File key can be uploading based on the attribute functions. The file can be uploading if the authorized person gives a key to upload a file. If a group is updated, then the group key changes to the shared key of the new group. The drawback of is that the user key size is combinatorial large in the total number of users (if the system is unconditionally secure). Another drawback is that the group key of a given group cannot be changed even if it is leaked unexpectedly (e.g) cryptanalysis of cipher texts bearing this key). The key size problem may be overcome if a computationally secure easy. Further, computationally secure KPS is only known for the two party cases and the three-party case KPs with a group size greater than still open.

DISADVANTAGES:

1. The User key size is combinatorial large in the total number of users (if the system is unconditionally secure).
2. The given key cannot be changed even if it is leaked unexpectedly.

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PROPOSED SYSTEM:

The out sourced attribute based encryption with keyword search function for cloud storage with an arbitrary connectivity graph, where each user is only aware of his neighbors and has no information about the existence of other users. Further, he has no information about the network topology. Under this setting a user does not need to trust a user who is not his neighbor. Thus, if one is initialized using PKI, then the need not trust or remember public keys of users beyond his neighbors.

ADVANTAGES:

1. To update the key more efficiently than just running the protocol again, when user memberships are changing.
2. Two passively secure protocols with contributiveness and proved lower bounds on a round complexity, demonstrating that our protocols are round efficient.

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SYSTEM SPECIFICATION

HARDWARE REQUIREMENTS

- Processor - Pentium –III
- Speed - 1.1 Ghz
- RAM - 256 MB(min)
- Hard Disk - 20 GB
- Floppy Drive - 1.44 MB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

SOFTWARE REQUIREMENTS

- Operating System : Windows 7/8
- Front End : .NET
- Database : Mysql

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