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PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

Protecting Your Right: Verifiable Attribute-based Keyword Search with Fine-Grained Owner-Enforced Search Authorization in the Cloud

ABSTRACT

Search over encrypted data is a critically important enabling technique in cloud computing, where encryption-before outsourcing is a fundamental solution to protecting user data privacy in the untrusted cloud server environment. Many secure search schemes have been focusing on the single-contributor scenario, where the outsourced dataset or the secure searchable index of the dataset are encrypted and managed by a single owner, typically based on symmetric cryptography. In this paper, we focus on a different yet more challenging scenario where the outsourced dataset can be contributed from multiple owners and are searchable by multiple users, i.e. multi-user multi-contributor case. Inspired by attribute-based encryption (ABE), we present the first attribute-based keyword search scheme with efficient user revocation (ABKS-UR) that enables scalable fine-grained (i.e. file-level) search authorization. Our scheme allows multiple owners to encrypt and outsource their data to the cloud server independently. Users can generate their own search capabilities without relying on an always online trusted authority. Fine-grained search authorization is also implemented by the owner-enforced access policy on the index of each file. Further, by incorporating proxy re-encryption and lazy re-encryption techniques, we are able to delegate heavy system update workload during user revocation to the resourceful semi-trusted cloud server.

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EXISTING SYSTEM

CLOUD computing has emerged as a new enterprise IT architecture. Many companies are moving their applications and databases into the cloud and start to enjoy many unparalleled advantages brought by cloud computing, such as on-demand computing resource configuration, ubiquitous and flexible access, considerable capital expenditure savings, etc. However, privacy concern has remained a primary barrier preventing the adoption of cloud computing by a broader range of users/applications. When sensitive data are outsourced to the cloud, data owners naturally become concerned with the privacy of their data in the cloud and beyond. Encryption-before-outsourcing has been regarded as a fundamental means of protecting user data privacy against the cloud server.

DISADVANTAGES

- Search over encrypted data is a critically protecting user data privacy in the untrusted cloud server environment.
- Challenging scenario where the outsourced dataset can be contributed from multiple owners and are searchable by multiple users.

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PROPOSED SYSTEM

Design the first verifiable attribute based keyword search scheme in the cloud environment, which enables scalable and fine-grained owner-enforced encrypted data search supporting multiple data owners and data users. Compared with existing public key authorized keyword search scheme , our scheme could achieve system scalability and fine-grainedness at the same time. Different from search scheme with predicate encryption, our scheme enables a flexible authorized keyword search over arbitrarily-structured data. In addition, by using proxy re-encryption and lazy re-encryption techniques.

ADVANTAGES

- Search scheme is better suited to the cloud outsourcing model and enjoys efficient user revocation.
- The whole search process verifiable and data user can be assured of the authenticity of the returned search result

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SYSTEM REQUIREMENTS:

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 8
- Application Server : Tomcat5.0/6.X
- Front End : HTML, Java, Jsp
- Scripts : JavaScript.

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- Server side Script : Java Server Pages.
- Database : Mysql 5.0
- Database Connectivity : JDBC.

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