

T AFC Time and Attribute Factors Combined Access Control for Time-Sensitive Data in Public Cloud

ABSTRACT

Cloud storage service has significant advantages on both convenient data sharing and cost reduction. Thus, more and more enterprises and individuals outsource their data to the cloud to be benefited from this service. However, this new paradigm of data storage poses new challenges on data confidentiality preservation. As cloud service separates the data from the cloud service client (individuals or entities), depriving their direct control over these data, the data owner cannot trust the cloud server to conduct secure data access control. Therefore, the secure access control problem has become a challenging issue in public cloud storage.

EXISTING SYSTEM

In Existing System, Cipher text-policy attribute-based encryption (CP-ABE) is a useful cryptographic method for data access control in cloud storage. All these CP-ABE based schemes enable data owners to realize fine-grained and flexible access control on their own data. However, CP-ABE determines users' access privilege based only on their inherent attributes without any other critical factors, such as the time factor. fine-grained access control for time sensitive data in cloud storage. One challenge is to simultaneously achieve both flexible timed release and fine granularity with lightweight overhead, which was not explored in existing works.

DIS ADVANTAGES

- The data owner cannot trust the cloud server to conduct secure data access control.
- Users cannot access the data until the corresponding time arrives.

PROPOSED SYSTEM

In Proposed System, Our scheme seamlessly incorporates the concept of timed-release encryption to the architecture of cipher text policy attribute-based encryption. With a suit of proposed mechanisms, this scheme provides data owners with the capability to flexibly release the access privilege to different users at different time, according to a well-defined access policy

over attributes and release time. We further studied access policy design for all potential access requirements of time sensitive, through suitable placement of time trapdoors. The analysis shows that our scheme can preserve the confidentiality of time-sensitive data, with a lightweight overhead on both CA and data owners. It thus well suits the practical large-scale access control system

ADVANTAGES

- Highly efficient and satisfies the security requirements for time sensitive data storage in public cloud.
- Time related decryption can be outsourced to the cloud without losing confidentiality.

SYSTEM REQUIREMENTS

H/W System Configuration:-

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

S/W System Configuration:-

Operating System	:	Windows95/98/2000/XP
Application Server	:	Tomcat5.0/6.X
Front End	:	HTML, Jsp
Scripts	:	JavaScript.
Server side Script	:	Java Server Pages.

Database : MySQL 5.0

Database Connectivity : JDBC

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