

VOD-ADAC Anonymous Distributed Fine grained Access Control protocol with verifiable Outsourced Decryption in public cloud

Abstract:

Along with the development of cloud computing, more and more corporations and individuals upload their data to public cloud server (for short, PCS). They will delegate PCS to store and manage their remote data. By using public cloud, the corporations and individuals are relieved of the burden of storage management, universal data access with independent geographical locations, capital expenditure on hardware, *etc.* Public cloud can provide data storage service, computation service, *etc.* Thus, cloud computing attracts all kinds of clients.

Existing system:

Chen *et al.* proposed and formalized outsourced attribute-based signature .With the users' attributes are managed by multi-authority, multi-authority ABE was proposed. Multi-authority ABE is also called as the distributed ABE. Many researchers have studied the distributed ABE. In order to realize the distributed fine-grained access control, we take use of the idea of multi-authority ABE.

Disadvantages:

1. Security levels are low.
2. Data encryption and cost management are the things which are included with cost.

Proposed system:

In the proposed system we propose an anonymous distributed fine-grained access control protocol with verifiable outsourced decryption in public cloud (for short, VOD-ADAC). VOD-ADAC is a novel concept which is proposed for the first time in the paper. By adopting the pseudonym technique, the user's high anonymity can be achieved by frequently changing the independent pseudonyms at some highly social spots. This paper formalizes the system model and security model of VOD-ADAC protocol. Then, by using hybrid encryption technique of

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distributed ABE and symmetric encryption, a concrete VOD-ADAC protocol is designed from the bilinear pairings.

Advantages:

1. Security levels have been improved we are preserving the user identity in the remote control usage.
2. Verifiable outsource decryption is a very attractive technique with low cost and good performance.

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