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PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

ATTRIBUTE-BASED ACCESS CONTROL WITH CONSTANT-SIZE CIPHERTEXT IN CLOUD COMPUTING

ABSTRACT

With the popularity of cloud computing, there have been increasing concerns about its security and privacy. Since the cloud computing environment is distributed and untrusted, data owners have to encrypt outsourced data to enforce confidentiality. Therefore, how to achieve practicable access control of encrypted data in an untrusted environment is an urgent issue that needs to be solved. Attribute-Based Encryption (ABE) is a promising scheme suitable for access control in cloud storage systems. This paper proposes a hierarchical attribute-based access control scheme with constant-size ciphertext. The scheme is efficient because the length of ciphertext and the number of bilinear pairing evaluations to a constant are fixed. Its computation cost in encryption and decryption algorithms is low. Moreover, the hierarchical authorization structure of our scheme reduces the burden and risk of a single authority scenario. We prove the scheme is of CCA2 security under the decisional q -Bilinear Diffie-Hellman Exponent assumption.

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EXISTING SYSTEM

The cloud computing paradigm brings many benefits, there are many unavoidable security problems caused by its inherent characteristics such as the dynamic complexity of the cloud computing environment, the openness of the cloud platform and the high concentration of resources. One of the important problems is how to ensure the security of user data. Security problems, such as data security and privacy protection in cloud computing, have become serious obstacles which, if not appropriately addressed. Secure sharing of data plays an important role in cloud computing.

DISADVANTAGES

- Attribute-based access control can realize data confidentiality in the untrusted environment of server-end, fine-grained access control and large-scale dynamic authorization which are the difficult problems to solve the traditional access control.
- Furthermore, in previous ABE schemes, the size of the ciphertext and the number of pairing computations vary linearly with the number of attributes.

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PROPOSED SYSTEM

This paper proposes a hierarchical ciphertext-policy at-tribute-based encryption (CP-ABE) access control scheme with constant-size ciphertext that can realize scalable, flexible, and fine-grained access control of outsourced data in cloud computing. The proposed scheme adopts CP-ABE with constant ciphertextsize and maintains the size of ciphertext and the computation of bilinear pairing at a constant value, which improves the efficiency of the system and reduces the extra overhead of space storage, data transmission and computation. Second, we design a hierarchical access control system. This system supports inheritance of authorization that reduces the burden and risk in the case of single authority.

ADVANTAGES:

- Shows our scheme has good adaptability and scalability in cloud computing.
- Making the CP-ABE algorithm simpler and more efficient along with making it even more suitable for access control in a cloud environment.

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SYSTEM REQUIREMENTS:

HARDWARE REQUIREMENTS:

System : Pentium IV 2.4 GHz.

Hard Disk : 40 GB.

Floppy Drive : 1.44 Mb.

Monitor : 15 VGA Colour.

Mouse : Logitech.

Ram : 512 Mb.

SOFTWARE REQUIREMENTS:

Operating system : Windows XP/7.

Coding Language : ASP.net, C#.net

Tool : Visual Studio 2010

Database : SQL SERVER 2008

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