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## **SECRBAC: SECURE DATA IN THE CLOUDS**

### **ABSTRACT**

Most current security solutions are based on perimeter security. However, Cloud computing breaks the organization perimeters. When data resides in the Cloud, they reside outside the organizational bounds. This leads users to a loss of control over their data and raises reasonable security concerns that slow down the adoption of Cloud computing. Is the Cloud service provider accessing the data? Is it legitimately applying the access control policy defined by the user? This paper presents a data-centric access control solution with enriched role-based expressiveness in which security is focused on protecting user data regardless the Cloud service provider that holds it. Novel identity-based and proxy re-encryption techniques are used to protect the authorization model. Data is encrypted and authorization rules are cryptographically protected to preserve user data against the service provider access or misbehavior. The authorization model provides high expressiveness with role hierarchy and resource hierarchy support. The solution takes advantage of the logic formalism provided by Semantic Web technologies, which enables advanced rule management like semantic conflict detection. A proof of concept implementation has been developed and a working prototypical deployment of the proposal has been integrated within Google services.

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## **EXISTING SYSTEM**

SECURITY is one of the main user concerns for the adoption of Cloud computing. Moving data to the Cloud usually implies relying on the Cloud Service Provider (CSP) for data protection. Although this is usually managed based on legal or Service Level Agreements (SLA), the CSP could potentially access the data or even provide it to third parties. Moreover, one should trust the CSP to legitimately apply the access control rules defined by the data owner for other users.

## **DISADVANTAGES**

- Users to a loss of control over their data and raises reasonable security concerns that slow down the adoption of Cloud computing.
- Role hierarchy and object hierarchy capabilities cannot be achieved by current ABE schemes. Moreover, they usually lack some combination with a user-centric approach.

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## PROPOSED SYSTEM

Data-centric solution with data protection for the Cloud Service Provider to be unable to access it. Rule-based approach for authorization where rules are under control of the data owner. High expressiveness for authorization rules applying the RBAC scheme with role hierarchy and resource hierarchy (Hierarchical RBAC or hRBAC). Access control computation delegated to the CSP, but being unable to grant access to unauthorized parties. Secure key distribution mechanism and PKI compatibility for using standard X.509 certificates and keys.

## ADVANTAGES

- The authorization model provides high expressiveness with role hierarchy and resource hierarchy support.
- Hierarchy is the main advantages of the logic formalism provided by Semantic Web technologies.

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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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