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Two-Factor Data Security Protection Mechanism for Cloud Storage System

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ABSTRACT: In our system, proposed system exhibit another fine-grained two-variable approval (2FA) get the opportunity to control structure for electronic circulated Computing associations .We introduced user cannot access data without a secret key and light weight security device like a finger print scanner ,and user need both secret key as well as a light weight security device for accessing of any file. If secret key and user thumb match with registered image then user can view file as well download it,admin store file in fragmented format also with its replica. If some of uploaded files fragment data loss then we can get backup of our data from replica .We also introduced, If we want to access any file in a particular location and for a particular time then we can do it from user, security key is stolen or delete from a mail then user can revoke this security key from admin by request. Admin will accept the request and send key on users mail so user can download the file.

KEYWORDS: Two-factor, factor revocability, Fine-grained,security, cloud storage

I. INTRODUCTION

In our system, we proposed system exhibit another fine-grained two-variable approval (2FA) get to control structure for electronic distributed Computing organizations. Specifically, we proposed system proposed 2FA get to control structure, a property based get to control framework is executed with the need of both a customer secret key and a lightweight security device. new user can't get to the structure in case they don't hold both, the instrument can enhance the security of the system, especially in those circumstances where various customers have a similar PC for online cloud organizations. In a same trademark based control in the structure too enables the cloud server to restrict the access to those customers with a similar proposed system to perform new activity of properties while saving customer insurance, i.e., the cloud server just understands that the customer fulfills the required predicate, however no piece of information has on the exact identity of the user.

II.EXISTING SYSTEM APPROACH

In existing system cloud computing are not great advantages, there are meanwhile also concerns about security and privacy especially for web-based cloud services. As sensitive data may be stored in the cloud for sharing purpose or convenient access; and eligible users may also access the cloud system for various applications and services, authentication of user has become a critical component for any cloud system. the cloud. There are two problems for the traditional account/password based system. First, the traditional account/password-based authentication is not privacy-preserving. Then, it is we known that privacy is an essential feature that must be considered in cloud computing systems. Another system, it is common to share a computer among different people. It may be easy for hackers to install some spyware to learn the login password from the web-browser. In existing, Even though the computer may be locked by a password, it can still be possibly guessed or stolen by undetected malwares.

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III. PROPOSED SYSTEM APPROACH

In the System, 4 modules are present: authority, trustee, user, cloud server.

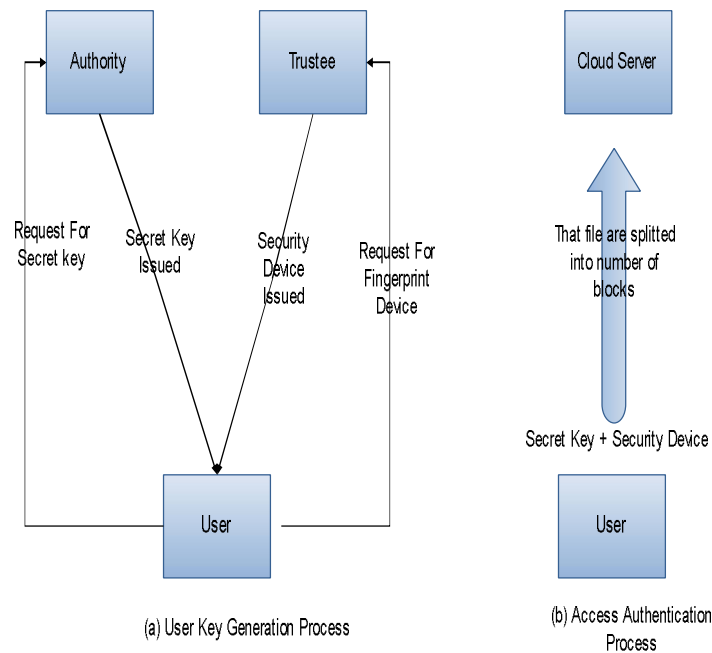


Fig.1 Block Diagram of Proposed System

User : User register to the system with scanning finger print and send the request to activate him. User login to system with first time by OTP and gives scanned image if they matched user logged in to system. User view files and send request for secret key to admin. When users get secret key user can download the file by entering secret key. If secret key lost then user can again request for key.

Trustee: Trustee login to system and accept the user request for his entry in system.

Admin: Admin login to system and upload file. Admin can view all file details. He gets the request from user for secret key and send the secret key to users mail.

Cloud Server:- Store the data on a cloud server.

IV. CONCLUSION

In a cloud computing security of data is more important point. We propose a fine-grained two-factor access control protocol for web-based cloud computing services, using a lightweight security device like finger print scanner and secret key. For a registration of we provide biometric thumb and otp. After proper validation user can access any file on a cloud. We also provide downloading of any file two level security like thumb scanner and secret key. So we provide more security to our data, File can store on cloud in a fragmentation format. User can revoke the secret key. So we maintain our system more secure and reliable.

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