**Towards Shared Ownership in the Cloud**

**ABSRACT:-**

Cloud storage platforms promise a convenient way for users to share files and engage in collaborations, yet they require all files to have a single owner who unilaterally makes access control decisions. Existing clouds are, thus, agnostic to the notion of shared ownership. This can be a significant limitation in many collaborations because, for example, one owner can delete files and revoke access consulting the other collaborators. In this paper, we first formally define a notion of shared ownership within a file access control model. We then propose two possible instantiations of our proposed shared ownership model. Our first solution, called Commune, relies on secure file dispersal and collusion resistant secret sharing to ensure that all access grants in the cloud require the support of an agreed threshold of owners. As such, Commune can be used in existing clouds without modifications to the platforms. Our second solution, dubbed Comrade, leverages the block chain technology in order to reach consensus on access control decision. Unlike Commune, Comrade requires that the cloud is able to translate access control decisions that reach consensus in the block chain into storage access control rules, thus requiring modifications to existing clouds. We analyze the security of proposals and compare/evaluate their performance through implementations using Amazon S3.

**EXISTING SYSTEM:-**

Cloud storage platforms promise a convenient way for users to share files and engage in collaborations, yet they require all files to have a single owner who unilaterally makes access control decisions. Existing clouds are, thus, agnostic to the notion of shared ownership. This can be a significant limitation in much collaboration because, for example, one owner can delete files and revoke access without consulting the other collaborators. In contrast to individual ownership, we introduce a novel notion of shared ownership where n users jointly own a file and each file access request must be granted by a pre-arranged threshold of owners. We remark that existing cloud platforms, such as AmazonS3 or Dropbox, provide no support for shared ownership policies, and offer only basic access control lists.

**DISADVANTAGES OF** **EXISTING SYSTEM:-**

1. Single Ownership access rights are difficult for the shared ownership files.

2. The existing schemas do not allow the shared ownership.

**PROPOSED SYSTEM:-**

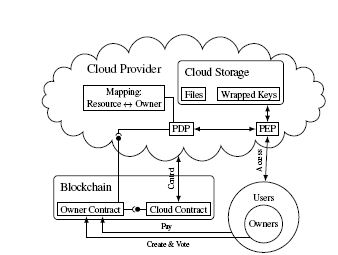
In this paper, we first formally define a notion of shared ownership within a file access control model. We then propose two possible instantiations of our proposed shared ownership model. Our first solution, called Commune, relies on secure file dispersal and collusion resistant secret sharing to ensure that all access grants in the cloud require the support of an agreed threshold of owners. As such, Commune can be used in existing clouds without modifications to the platforms. Our second solution, dubbed Comrade, leverages the blockchain technology in order to reach consensus on access control decision. Unlike Commune, Comrade requires that the cloud is able to translate access control decisions that reach consensus in the blockchain into storage access control rules, thus requiring minor modifications to existing clouds. We analyze the security of our proposals and compare/evaluate their performance through implementations using Amazon S3.

**ADVANTAGES OF PROPOSED SYSTEM:-**

**1.** It will allow the shared ownership file access rights.

2 The proposed schema will allow the facility to share the file without changing the platform.

**SYSTEM ARCHITECTURE:**



**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 : JAVA/J2EE
* IDE : Netbeans 7.4
* Database : MYSQL

**Reference:-** C. Soriente, G. O. Karame, H. Ritzdorf, S. Marinovic, and S. Capkun, “Commune: Shared ownership in an agnostic cloud,” ser. SACMAT ’15, 2015.