

More Usage of Cloud Storage Through Deferrable Attribute Based Encryption

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Abstract- Cloud storage services increasingly day by day. Importance of privacy becomes popular. So to protect data many cloud storage schemes are proposed. All the schemes are assumed that providers of cloud storage are safe and won't be hacked. But in Practical situations are not like that. Some authorities forcing the cloud providers to reveal user secrets on the cloud. In this paper, we design a new cloud storage encryption scheme which enables cloud storage providers to create convincing fake user secrets thereby we can protect user privacy.

Keywords- Attribute Based Encryption, Cloud Storage, CP-ABE, KDC

I. INTRODUCTION

Cloud Computing contains three different types of service models those are Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS), and Software-as-a-Service (SaaS). If a cloud user accesses services on the infrastructure layer, she is the responsible for her privacy and maintainence. If she accesses a service on the application layer, responsibilities are taken by the cloud providers itself.

Benefits of cloud computing:

- Achieve economies of scale.
- Streamline processes..
- Reduce capital costs.
- Improve accessibility.
- Monitor projects each and every time.
- No need of training
- Minimize licensing new software.
- Improve flexibility.

K.Pranathi, M .Deena Babu [1] proposed a new CP-ABE scheme to build an audit-free cloud storage service to the users. It provides makes connection invalid and the ABE property provides secure cloud data sharing mechanism. Their

proposed scheme provides a possible way to fight with the right of privacy.

P. Santhi, S. Thilagamani [2] current enabling data reliability proof and constancy services over multi cloud system using ABE which helps in informative violation as much as possible. The cloud reliability model and local auditing, global auditing that helps user to get data in the updated version. It is a considered to provide regular update mechanism to confirm fragments simply and provide the data to users after updating only

Mr.Basani Pradeep Kumar, Mr. K.Raju [3] proposed a different CP-ABE scheme to provide audit free cloud storage for the users.by using this scheme all users got rghts to protect their data.

Sridhar Reddy, P. Sathish Reddy, Pabpu Sravanthi [4] concluded with how to securely audit public data and how to put security public data when share data. How to provide security base on attribute schema

S.Kavitha, A. Sangeetha, Mrs. P. C. Selva chandra [5] proposed a CP-ABE scheme to the users for audit free cloud storage purposes. There by no hacking will takes place at cloud storage.

Kavitha S, Kousalya G [6] proposed a new different approach for audit free cloud storage to get rights for the users to protect their data from hackers.

II. PROPOSED SYSTEM

In this section we are discussing about Proposed system architecture and data flow diagrams which is shown in the below Fig.1 and Fig.2

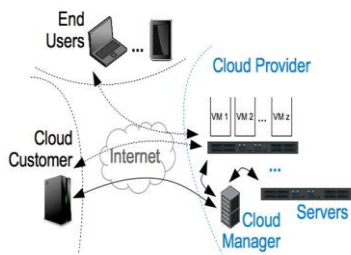


Fig.1 Proposed System Architecture

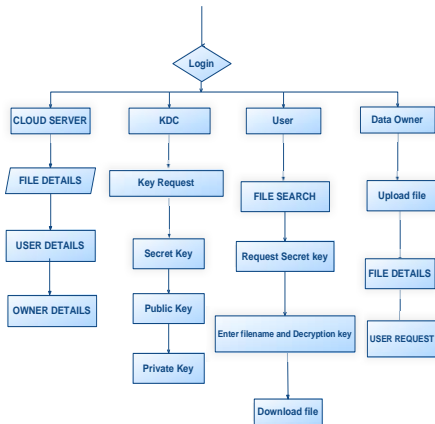


Fig.2 Proposed System Architecture

III. IMPLEMENTATION OF THE PROPOSED SYSTEM

Implementation of Proposed system done by using four modules. Those are

- Key Distribution center
- Data Owners
- Cloud Server
- User Module
- Search over files

Key Distribution center:

In this paper we developed KDC. Every user requests a security key to access his/her files from the cloud storage. The KDC develops a Key to the user and sends to the user Gmail account. By using that key he / she can access their files.

Data Owners:

In this paper we implemented data owner model such that all data owners having the rights to access their data without interrupting to other data owners.

Cloud Server:

Data owner sends data to the cloud server. The cloud server generates different keys for the same data itself.

User Module:

In our paper we implemented a user module. Each user having the rights to access their files. They get security key from the KDC. So by using that key they can access.

Search over files:

This paper allows search over encrypted files which would be encrypted and stored in the cloud. This functionality provides you the facility of searching respective file with a searching text. This will leads to ask for a secret key. Then the credentials will help to achieve file download.

IV. RESULTS AND DISCUSSIONS

The below Figures shows that Results and discussions. The below Fig.3 shows that Registration page.

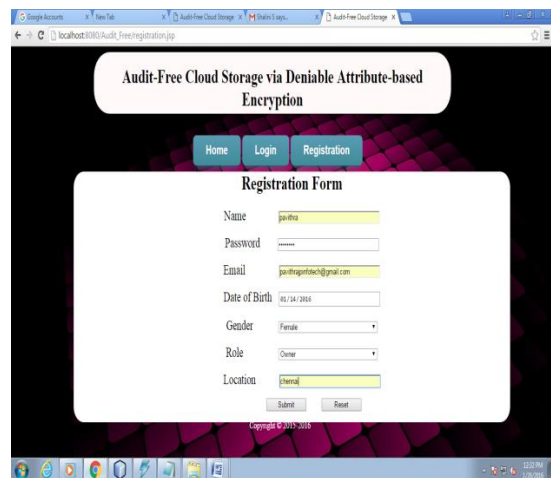


Fig.3 Registration page.

- After successful Registration user directly go for login page as shown in Fig.4

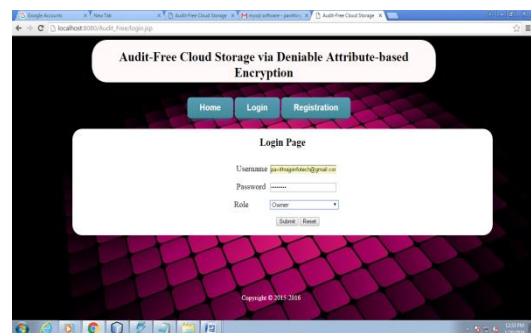


Fig.4 Login Page

- Master key was generated and sends to Gmail. As shown in Fig.5

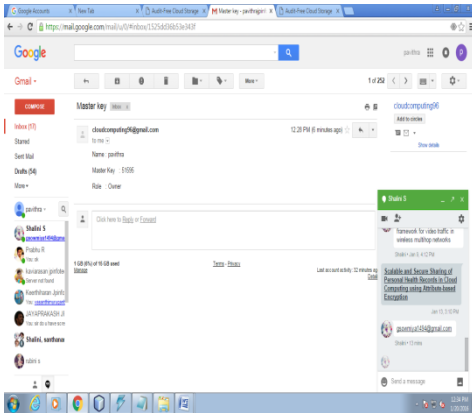


Fig.5 Master Key sends to Gmail

- After successful login we can upload Files as shown in Fig.6

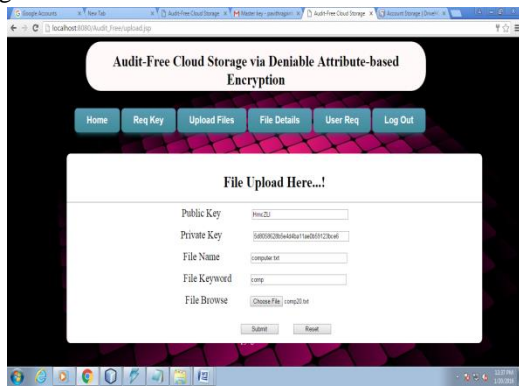


Fig.6 File uploading Page

- The user those who wants the file need to login first and should enter the key. After that they can download the files shown in Fig.7



Fig.7 Download the files

- The users those who want the files need to send request as shown in Fig.8

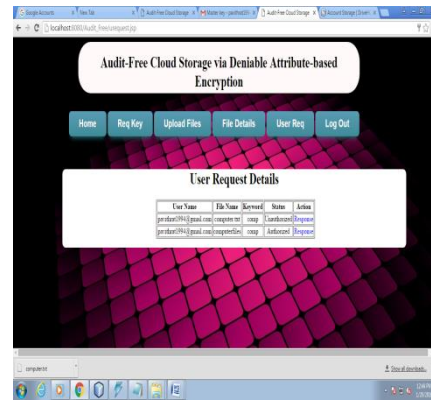


Fig.8 User Request details

V. CONCLUSION

More Usage of Cloud Storage through Deferrable Attribute Based Encryption successfully implemented. In this work, we implemented CP-ABE scheme to reduce the hacking process in cloud storage. All users can access their data without interruption.

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