

SYNOPSIS OF THE PROJECT

Roll No &Name	16 : Manjima Varghese
Name of Guide	Dr.Sujesh P Lal
Contact Number:	8078396764
Email id"	manjimavarghese109@gmail.com
Shared folder/git repository details	https://github.com/ManjimaVarghese/MainProject.git
Project Title	Attribute-Based Storage Supporting Secure Deduplication of Encrypted Data in Cloud
<p>Description of Project:</p> <p>Attribute-based encryption (ABE) has been widely used in cloud computing where a data provider outsources his/her encrypted data to a cloud service provider, and can share the data with users possessing specific credentials (or attributes). However, the standard ABE system does not support secure deduplication, which is crucial for eliminating duplicate copies of identical data in order to save storage space and network bandwidth.</p> <p>In this paper, we present an attribute-based storage system with secure deduplication in a hybrid cloud setting, where a private cloud is responsible for duplicate detection and a public cloud manages the storage. Compared with the prior data deduplication systems, our system has two advantages.</p> <p>Our storage system is built under a hybrid cloud architecture, where a private cloud manipulates the computation and a public cloud manages the storage. The private cloud is provided with a trapdoor key associated with the corresponding ciphertext, with which it can transfer the ciphertext over one access policy into ciphertexts of the same plaintext under any other access policies without being aware of the underlying plaintext. After receiving a storage request, the private cloud first checks the validity of the uploaded item through the attached proof. If the proof is valid, the private cloud runs a tag matching algorithm to see whether the same data underlying the ciphertext has been stored.</p>	
Front end and BackendTools	Front end : HTML,CSS,JavaScript Back end : MYSQL,PHP