

SECURE DATA SHARING IN CLOUDS

*A project report submitted in partial fulfillment of the requirements for the
award of the Degree of*

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

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CERTIFICATE

This is to certify that the project entitled "SECURE DATA SHARING IN CLOUDS" in partial fulfillment for the of degree of Bachelor of Technology in COMPUTER SCIENCE AND ENGINEERING, at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, MAKAVARAPALEM, VISAKHAPATNAM is an bonafied work carried out by P.BHAGYA SREE(14811A0550), JHARI KRISHINA(14811A0528), K.SRAVANI(14811A0536), V.VIJAYA LAKSHMI (14811A0574) under the guidance and supervision during 2017-2018.

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PROJECT GUIDE

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ABSTRACT

Cloud storage services are growing at a fast rate and are emerging in data storage field. These services are used by people for backing up data, sharing file through social networks like Facebook [3], Zing Me [2]. Users will be able to upload data from computer, mobile or tablet and also download and share them to others. Thus, system load in cloud storage becomes huge. Nowadays, Cloud storage service has become a crucial requirement for many enterprises due to its features like cost saving, performance, security, flexibility.

To design an efficient storage engine for cloud based systems, it is always required to deal with requirements like big file processing, lightweight metadata, deduplication, high scalability. Here we suggest a Big file cloud architecture to handle all problems in big file cloud system. Basically, here we propose to build a scalable distributed data cloud storage that supports big file with size up to several terabytes.

In cloud storage, system load is usually heavy. Data deduplication to reduce wastage of storage space caused by storing same static data from different users. In order to solve the above problems, we are using SHA.AES algorithms a common method used in Cloud storages, is by dividing big file into small blocks, storing them on disks and then dealing them using a metadata system [1], [6], [19], [20]. Current cloud storage services have a complex metadata system. Thereby, the space complexity of the metadata System is $O(n)$ and it is not scalable for big file. In this research, a new big file cloud storage architecture and a better solution to reduce the space complexity of metadata is suggested.