**ABSTRACT**

Cloud storage services are rapidly growing and becoming an emerging trend in data storage field. But in cloud not store the petabytes of data. In this reason develop new technology i.e Big Data and Big File Cloud Architecture. By using Big Data technology store the petabytes of data in the cloud storage engines. But there are many problems when designing an efficient storage engine for cloud based system with some requirements such as big file processing, lightweight meta-data, low latency, parallel I/O, de-duplication, distributed, high scalability. In the Big Data Using Key Value technique. Key value is played an important role solving those problems.

The existing system providing the cloud storage services and stores the data in cloud storage engines. It stores redundant data and occupied large space in the database and not stores the large amount of data.

The proposed system provides the Big File Cloud (BFC) architecture. By using BFC architecture solve the problems in existing system. That is low-complicated, fixed-size meta-data design, which supports fast and highly-concurrent, distributed file I/O, several algorithms for resumable upload, download and simple data de-duplication method for static data. This research applied the advantages of ZDB - an in-house key value store which was optimized with auto-increment integer keys for solving big-file storage problems efficiently. By using this divide the data into number of chunks and stores the data into chunks format. Compress the large size file into small size files. Easily distribute the data, upload and download files, distribute the data. In BFC used Key Value concepts.

The main aim of this system is develop a simple and efficient BFC architecture. By using this easily process the big files up to petabytes, data upload and download the file, distribute the files, parallel process the I/O files, remove the redundant data, and reduce the file size by using meta data compression technique.