ABSTRACT

Now a day’s smart mobile devices are deployed with different cloud based services like Google applications, Instagram, Facebook etc., which have been widely developed as mobile applications for mobile cloud computing. The latest hardware and programming developments in smart gadgets has given consistent collaboration between the clients and devices. Thus, rather than the conventional user, the mobile client in mobile Cloud environment creates an expansive volume of information which can be effectively gathered by mobile Cloud service providers. Moreover, the mobile users don't have the precise thought regarding the positive physical area of their own data. Along these lines, the users can't control over their data once it is put away in the Cloud. This thesis examines security and protection issues in such mobile Cloud environments and exhibits new client driven access control systems customized for the versatile Cloud situations.

With a particular final objective to organize the data security and client's assurance in mobile cloud environment, the thesis investigates Cipher Text - Attribute-based encryption (CP-ABE) strategies in mobile cloud computing. CP-ABE plan empowers information owners to authorize access arrangements amid the encryption. Connection related attributes, for example, requester’s area and conduct are consolidated within ABE plan to give information on security and client protection. This will enable the owners of the mobile data to logically control the passage to their data at runtime. Remembering the final objective to improve the execution, an answer that offloads the high-cost computational work and interchanges from the smart devices to the Cloud is proposed. Secret methods are integrated in the key issuing protocol so that the user’s identities are shielded from being followed by the service providers amid information exchanges. The proposed plans are secure from known attacks and thus suitable for mobile Cloud environment. Implementations of the proposed plans are formally scrutinized utilizing standard techniques on mobile and cloud environment.