

# **A PROSPECTIVE APPROACH ON SECURITY WITH RSA ALGORITHM AND CLOUD SQL IN CLOUD COMPUTING**

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## **ABSTRACT**

Cloud Computing is an emerging paradigm which has become today's hottest research area due to its ability to reduce the costs associated with computing, dynamic resource pools, virtualization, increases the efficiency of computing and high availability. But there are some drawbacks such as privacy, security is very important aspects. In this paper we are focusing to enhance the data security in cloud computing using RSA Algorithm and cloud SQL, In this work, we implement RSA algorithm before storing the sensitive data in cloud. When the authorized user request the data for usage then data decrypted and provided to the user. Google supports multi-tenant infrastructure in which, contents can be pushed in a short iteration cycle. to satisfy the customer needs from anywhere the information posted by the customer is not maintained in a single site or computer, rather maintained in number of trusted nodes. Simultaneous and faster access by different users from different places is also supported by google. To get high reliability and availability the data processed by the customer is stored and updated in multiple machines. If any one node gets failed, the other one provides the service. It is very easy to use and not requiring any other software. Hence authorized user can retrieve the encrypted data and decrypt data, provide efficient and the data storage security in cloud.

**KEYWORDS:** Cloud Computing, Cloud SQL, Data Security, Decryption, Encryption, RSA Algorithm