

# Data Security with Cloud Computing – A Research Paper

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**Abstract:** *This paper discusses the security of data in cloud computing. It is a study of data in the cloud and aspects related to it concerning security. The paper will go in to details of data protection methods and approaches used throughout the world to ensure maximum data protection by reducing risks and threats. Security is a concern here as the data is stored on remote server with multi user capabilities. The data is at the risk of unauthorized access thereby reducing reliability and privacy. Therefore, there is need to secure the data which may in the form of text, audio, video, etc. There are numerous algorithms designed by the researchers for securing the data on the cloud. The paper will go in to details of data protection methods and approaches used throughout the world to ensure maximum data protection by reducing risks and threats. The paper will also provide an insights on data security aspects for data-in-transit and data-at-rest. The study is based on all the levels of SaaS, PaaS and IaaS.*

**Keywords:** Data Security, Cloud Computing, Data Protection, Privacy, Risks and threats