Comprehensive Analysis of Cloud Security Risks and Mitigation Strategies

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Abstract*: After the Covid 19 pandemic the demand for cloud has skyrocketed. With Cloud Providers giving attractive benefits to the consumers like over the network resource sharing. Particularly data storage is the most prominent feature available in cloud computing. Data owners consider cloud a safer way to store and manage data than traditional ways of storing it locally on physical systems. Even large organizations and govt. sectors are shifting to cloud environment for reliable and cheap data storage alternative. Even with so many strengths of a cloud few challenges arise in storing sensitive and non -sensitive data. Data security on cloud is a growing phenomenon which is primarily caused by intruders, hackers and attackers. Many researchers have worked on these problems and proposed various techniques and methods to ensure data security in cloud environment. In this paper, detailed study and investigation is performed on few of the research papers that is published over the period of time in this field. This literature paper gives insights about data breaches and data security challenges in cloud environments.*

Keywords: Cloud Computing, Data Security, Data Breaches