

# SecureCloud: A Shield Against Virtual Threats

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**Abstract:** *Cloud computing is a constituent of today and tomorrow innovative information and computing technologies which provides useful and convenient services like storage and access etc. But it has important problems which aggravate with security aspects of a system with regards to the data confidentiality and integrity. These challenges are met in this paper by conducting a detailed theoretical study of literature on data security risks in single and multi-cloud models. Some of the threats include; break-ins, theft of information and loss of information. A comparison of extant literature on security measures like encryption and access control in the cloud based systems is done. It is shown that the solutions available currently have certain deficits, which contribute to the necessity of enhancing safety features. Thus, to fill these gaps, it is suggested to have one layer of protection against data access and another one in relation to data downloads. That way it is protective of the data, useful and clients' information privacy will be well protected. Thus, the results of the study can be valuable for researchers and cloud service providers who are working on the improvement of the information security in cloud environments.*

**Keywords:** Cloud computing, Cloud service provider, data security, Encryption