



A Review about Enhancing Security Of Cloud Server using Cryptography

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Abstract: Cloud services are offering flexible & scalable services. But there is always issue of security in traditional cloud based systems. When data is transferred from centrally located server storage to different cloud the technical complexities increases. There is always risk to confidentiality & availability of data prior to selecting a cloud vendor or choosing own cloud & cloud service migration. Cloud services usually have their security concerns that must be addressed. In this paper, we have discussed threats to cloud service & data in case of traditional security system. We have also discussed modern security system to secure data on cloud. Security is provided using multiple layers.

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[1] INTRODUCTION

Cloud may be network or internet & it is something that is available at remote place[5]. It provides services over network that are public & private. They are used in wide area network, local area network or virtual private network. Several application like email & web based conferencing executes on cloud.

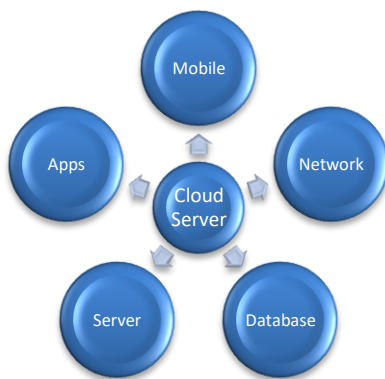


Fig 1 Cloud sever

Platform independency is offered by cloud computing because there is no need to install software on personal computer. So we can say that our business applications are mobile & collaborative due to cloud computing.

There are several services that are making cloud computing more feasible & easily accessible to users.

Cloud computing is providing number of advantages but there are several risks associated with this technology.

[2] CLOUD SERVER MODEL

Type of access to cloud has been defined by Deployment model[8]. There are four types of accessibility in cloud that are public access, private access, Hybrid access & Community access.

Public Cloud

A cloud is called a "public cloud" when the services are rendered over a network that is open for public use. Public cloud services may be free. Access to general public is allowed by public cloud. Due to openness public cloud is less secure[8].

Private Cloud

Private cloud is cloud infrastructure operated solely for a single organization, whether managed internally or by a third-party, and hosted either internally or externally. Private clouds are considered safer & secure [18].

Community Cloud

Accessibility to a particular group is allowed by community cloud. Community cloud shares infrastructure between several organizations from a specific community with common concerns. It is managed internally or by a third-party, and hosted internally or externally [18].

Hybrid Cloud

Hybrid cloud is a composition of two or more clouds such as private, community or public which remain distinct entities. But they are bound together and offer the benefits of multiple deployment models. Hybrid cloud means the ability to connect