



DECIMAL ATTRIBUTE BASED ENCRYPTION IN CLOUD SERVER

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ABSTRACT: This Research presents a comparative study of DECIMAL ATTRIBUTE BASED ENCRYPTION in cloud server and the security issues associated with those systems. In today's networked world, computers rarely work in isolation. They collaborate with each other for the purpose of communication, processing, data transfer, storage etc., when systems work in this collaborative fashion with other systems that are geographically scattered over wide distance it is commonly known as a distributed system. In literature, researchers have used diverse definitions to outline what a distributed system is Inspired by the cloud computing characteristics like pay per use, rapid elasticity, scalable, on demand self service, secure and economical. The motivation for cloud computing was initially driven by large scale resource intensive government application, that require more computational, network and storage resources than a single computer, cloud provides in a single administrative domain. Cloud computing is a computing paradigm, where a large pool of systems are connected in private or public networks, to provide dynamically scalable infrastructure for application, data and file storage at low cost.



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[1] Introduction

Cloud computing system has various advantages over traditional client server architecture of the government information system. Governments around the world have started using cloud computing models instead of traditional client server architecture due to advantages of cloud computing. In many cases government is the leader in deployment of cloud computing model across the wide economy [1]. The government contains general data and information for citizens but it also contains critical data which needs high security.

Security of critical government data is big concern when shifting government data and information on the cloud, so governments are hesitating to adopt cloud computing models and shift their data on them, another reason is the cloud computing is a new concept of the computing and still to get popularity among the governments, but its advantages attracts the governments. As per *Lockheed Martin cyber security alliance survey*: The cloud's non

popularity, trust and security concerns have restricted the adoption of cloud computing by the governments which appear to be more perceptual than prohibitive [2]. But now cloud computing is gaining popularity among the people and governments through out the world, so governments are using cloud computing models to provide services to the citizens.

Some of the cloud providers have started providing cloud computing solutions to the government customers and address their specific requirements which includes security, cost saving, reliability etc.

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