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Data Security Challenges and Its Solutions in Cloud Computing

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Abstract

Cloud Computing trend is rapidly increasing that has an technology connection with Grid Computing, Utility Computing, Distributed Computing. Cloud service providers such as Amazon IBM, Google's Application, Microsoft Azure etc., provide the users in developing applications in cloud environment and to access them from anywhere. Cloud data are stored and accessed in a remote server with the help of services provided by cloud service providers. Providing security is a major concern as the data is transmitted to the remote server over a channel (internet). Before implementing Cloud Computing in an organization, security challenges needs to be addressed first. In this paper, we highlight data related security challenges in cloud based environment and solutions to overcome.

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Keywords: Cloud computing; Data security; Data Access

1. Introduction

Cloud Computing is the next generation internet based computing system which provides easy and customizable services to the users for accessing or to work with various cloud applications. Cloud Computing provides a way to store and access cloud data from anywhere by connecting the cloud application using internet [1]. By choosing the cloud services the users are able to store their local data in the remote data server [2]. The data stored in remote data