A SURVEY ON SECURITY ISSUES AND COUNTERMEASURES IN CLOUD COMPUTING STORAGE AND A TOUR TOWARDS MULTI-CLOUDS

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ABSTRACT

Cloud Computing is an agile, reliable, cost effective and scalable method for delivery of computing and delivery of data. End users access cloud based applications through a web browser or a lightweight desktop or mobile app while the business software and data are stored on servers at a remote location. Cloud Computing is an emerging computing paradigm in which resources of the computing infrastructure are provided as services over the Internet. This paper focus on security issues and the countermeasures in cloud computing storage. To keep sensitive user data confidential against untrusted servers, existing solutions usually apply cryptographic methods by disclosing data decryption keys only to authorized users. However, in doing so, these solutions introduce a heavy computation overhead. This paper eliminates the computation overhead in countering the security issues in cloud storage by using Kerberos authentication mechanism and address the need for moving to multi-clouds.

KEYWORDS: Clouds, Multi Clouds, Kerberos, Kerberos Realms