Exploring Cloud Security Concerns and Solutions: A Comprehensive Analysis

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Abstract: *Cloud computing has emerged as a prominent computing paradigm, offering a range of resources and services accessible over networks such as the internet. It draws upon techniques like grid computing and distributed computing to provide users, both in industry and academia, with virtual resources accessed remotely. However, as cloud computing gains traction, ensuring its security poses significant challenges. Users entrusting their data to the cloud necessitates robust security measures. This paper aims to explore the various security issues inherent in cloud computing, including concerns surrounding multi-tenancy, elasticity, and availability. Moreover, the paper will delve into existing security measures and approaches aimed at enhancing the security of cloud environments. By discussing these techniques and models, the paper aims to provide researchers and professionals with insights into effectively addressing security threats in the cloud*

Keywords: Cloud Computing, Cloud Security, Security Threats, Cloud Security Standards

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