Secure and Efficient Authentication Scheme for Cloud Computing

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Abstract

Cloud computing is a new, promising emerging technology which provides a variety of services over the public network. Such as software, hardware, data storage and infrastructure services. It is widely used because it offers high processing power, wide range of storage space and high computational speed. It provides a convenient on demand network access to a pool of shared services and resources via public networks. So enterprises can use the available services and resources to develop, host, and run services over their infrastructure in a flexible way anytime, anywhere with minimal management efforts. This makes cloud computing efficient, flexible and cost effective tool for business development and growth.

On the other hand, the adoption of cloud computing suffers from security and privacy deficiency, which became significant challenge.

In this paper; an efficient and provably secure authentication mechanism is proposed to give a
legitimate user the right to access and manage the cloud resources.

References


Index Terms

Computer Science Information Sciences

Keywords

MDHA, CUA, ECC