云计算环境下基于二维码的移动终端身份认证方案

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摘 要:提出一种云计算环境下的移动终端身份认证方案,用于解决传统身份认证技术中存在的不足.该方案以二维码为信息传输载体,结合动态加密密钥、对称加密算法和不可逆函数,实现了移动终端的动态认证.通过安全性分析可知,该方案结构简单,不需要借助第三方设备,具有较高的安全性和适应性.

关键词:云计算;二维码;移动终端;身份认证;动态密钥;MAC;IMSI

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An Identity Authentication Scheme of Mobile Terminal Based on Two-Dimension Code in Cloud Computing Environment

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Abstract: With the rise of cloud computing and the wide use of mobile platforms, this paper presents a mobile terminal authentication scheme in cloud computing environment, which is used to solve the problems of security in the traditional identity authentication technology. The programme with two-dimension code for information transmission carrier, combined with dynamic encryption keys, symmetric encryption algorithm and an inverse function. It realized the dynamic authentication of mobile terminal finally. According to the security analysis, the scheme with higher security and flexibility provides a simple structure and does not depend on third-party devices.

Key words: cloud computing; two-dimension code; mobile terminal; identity authentication; dynamic key; MAC; IM-structure.

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