

计算机科学

基于信任服务IBE体系的权限管理

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摘要:

针对现有的基于身份加密(identity based encryption, IBE)体系中缺乏权限管理问题, 提出一种基于信任服务IBE体系下的权限管理方案. 该方案采用门限的思想和算法对服务进行集中管理, 并结合基于角色的访问控制管理权限, 实现了细粒度的权限管理. 采用信任继承的思想为用户分配角色, 并采用集中审计的思想维护系统, 提高了系统的可靠性.

关键词: 计算机系统结构; 权限管理; 基于身份的加密; 门限; 信任继承; 集中审计

Privilege Management of IBE System Based on Trust Service

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Abstract:

The problem lacking privilege management still exists in the identity based encryption system. To solve this problem, a new scheme of the privilege management mechanism of identity based encryption system was put forward, which is named privilege management of identity based encryption system based on trust service. In the scheme, the idea and algorithm of the threshold are used to manage the services of the domain. Trust inheritance is applied in the researches of privilege management mechanism to assign roles to users. The privilege management mechanism also uses concentration audit to maintain system reliability.

Keywords: computer system organization; privilege management; identity based encryption; threshold; trust inheritance; concentration audit

收稿日期 2010-06-07 修回日期 网络版发布日期

DOI:

基金项目:

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