

云环境下基于动态规则的数据冗余模型的研究与实现

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摘要: 针对云环境下数据存储的副本管理问题, 给出了基于动态规则的数据冗余模型 IRDMDR(Intelligent Redundant Data Model based on Dynamic Rules) 和动态规则的学习模型, 并详细介绍了模型的构成、各个部分的含义及实现方法.最后与其他模型进行比较, 总结出本模型的优点.实践证明, 该模型能够优化访问代价、动态调整副本数量, 从而实现负载的动态平衡和提高系统可靠性.

关键词: 动态; 规则; 冗余; 协调

Study and Implementation of Data Redundant Model

Based on Dynamic Rules in Cloud

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Abstract: Aiming at replica management in cloud, IRDMDR(Intelligent Redundant Data Model based on Dynamic Rules) and study model are put forward. Every part of the model including realizing method is presented in detail. And the advantages of the model are summarized by comparing with other models. In practice it has proved that the model can optimize access cost, adjust replica number dynamically, achieve load balancing and improve the reliability of the system.

Key words: dynamic; rules; redundant; coordination

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