

NSBS: Design of a Network Storage Backup System

Authors : Xinyan Zhang, Zhipeng Tan, Shan Fan

Abstract : The first layer of defense against data loss is the backup data. This paper implements an agent-based network backup system used the backup, server-storage and server-backup agent these tripartite construction, and we realize the snapshot and hierarchical index in the NSBS. It realizes the control command and data flow separation, balances the system load, thereby improving the efficiency of the system backup and recovery. The test results show the agent-based network backup system can effectively improve the task-based concurrency, reasonably allocate network bandwidth, the system backup performance loss costs smaller and improves data recovery efficiency by 20%.

Keywords : agent, network backup system, three architecture model, NSBS

Conference Title : ICCSNT 2015 : International Conference on Communication Systems and Network Technologies

Conference Location : Kyoto, Japan

Conference Dates : November 12-13, 2015