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BestPeer++: A Peer-to-Peer Based Large-Scale Data Processing Platform

ABSTRACT:

The corporate network is often used for sharing information among the participating companies and facilitating collaboration in a certain industry sector where companies share a common interest. It can effectively help the companies to reduce their operational costs and increase the revenues. However, the inter-company data sharing and processing poses unique challenges to such a data management system including scalability, performance, throughput, and security. In this paper, we present BestPeer++, a system which delivers elastic data sharing services for corporate network applications in the cloud based on BestPeer—a peer-to-peer (P2P) based data management platform. By integrating cloud computing, database, and P2P technologies into one system, BestPeer++provides an economical, flexible and scalable platform for corporate network applications and delivers data sharing services to participants based on the widely accepted pay-as-you-go business model. We evaluate BestPeer++ on Amazon EC2 Cloud platform. The benchmarking results show that BestPeer++ outperforms HadoopDB, a recently proposed large-scale data processing system, in performance when both systems are employed to handle typical corporate network workloads. The benchmarking results also demonstrate that BestPeer++ achieves near linear scalability for throughput with respect to the number of peer nodes.

EXISTING SYSTEM:

- Such a warehousing solution has some deficiencies in real deployment.
- First, the corporate network needs to scale up to support thousands of participants, while the installation of a large-scale centralized data warehouse system entails nontrivial costs including huge hardware/software investments (a.k.a total cost of ownership) and high maintenance cost (a.k.a total cost of operations). In the real world, most companies are not keen to
invest heavily on additional information systems until they can clearly see
the potential return on investment (ROI).
• Second, companies want to fully customize the access control policy to
determine which business partners can see which part of their shared data.

PROBLEM DEFINITION:
• Most of the data warehouse solutions fail to offer such flexibilities.
• Solution has not been designed to handle such dynamicity.

PROPOSED SYSTEM:
• The main contribution of this paper is the design of BestPeer++ system that
provides economical, flexible and scalable solutions for corporate network
applications. We demonstrate the efficiency of BestPeer++ by benchmarking
BestPeer++ against HadoopDB, a recently proposed large-scale data
processing system, over a set of queries designed for data sharing
applications. The results show that for simple, low-overhead queries, the
performance of BestPeer++ is significantly better than HadoopDB.
• The unique challenges posed by sharing and processing data in an inter-
businesses environment and proposed BestPeer++, a system which delivers
elastic data sharing services, by integrating cloud computing, database, and
peer-to-peer technologies.

ADVANTAGES OF PROPOSED SYSTEM:
• Our system can efficiently handle typical workloads in a corporate network
and can deliver near linear query throughput as the number of normal peers
grows.
• BestPeer++ adopts the pay-as-you-go business model popularized by cloud
computing. The total cost of ownership is therefore substantially reduced
since companies do not have to buy any hardware/software in advance.
Instead, they pay for what they use in terms of BestPeer++ instance’s hours
and storage capacity.
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- BestPeer++ extends the role-based access control for the inherent distributed environment of corporate networks.
- BestPeer++ employs P2P technology to retrieve data between business partners.
- BestPeer++ is a promising solution for efficient data sharing within corporate networks.

SYSTEM REQUIREMENTS:

HARDWARE REQUIREMENTS:

- System: Pentium IV 2.4 GHz.
- Hard Disk: 40 GB.
- Floppy Drive: 44 Mb.
- Monitor: 15 VGA Colour.
- Ram: 512 Mb.

SOFTWARE REQUIREMENTS:

- Operating system: Windows XP/7.
- Coding Language: JAVA/J2EE
- IDE: Netbeans 7.4
- Database: MYSQL

REFERENCE: