

IEEE Projects 100% WORKING CODE + DOCUMENTATION+ EXPLANATION – BEST PRICE**LOW PRICE GUARANTEED**

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

MICANS INFOTECH, NO: 8 , 100 FEET ROAD, PONDICHERRY.WWW.MICANSINFOTECH.COM ; MICANSINFOTECH@GMAIL.COM

+91 90036 28940; +91 94435 11725

**IEEE Projects 100% WORKING CODE + DOCUMENTATION+ EXPLANATION – BEST PRICE
LOW PRICE GUARANTEED**

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 DEFENITION:

- 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.

IEEE Projects 100% WORKING CODE + DOCUMENTATION+ EXPLANATION – BEST PRICE**LOW PRICE GUARANTEED**

- 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:

Gang Chen, Tianlei Hu, Dawei Jiang, Peng Lu, Kian-Lee Tan, Hoang Tam Vo, and Sai Wu, “**BestPeer++: A Peer-to-Peer Based Large-Scale Data Processing Platform**”, VOL. 26,NO. 6, JUNE 2014.