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Reliable Data Assurance Code-Based Multipath Transmission Control Protocol among Peer To Peer System

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ABSTRACT:

Technology and its implication we carry forward has its meaning in its surrounding, If we consider the system of networking world which we really basic model has its own significance in the global world of Information Technology. In a networking of peer-to-peer system, the malicious activity is the major and the crucial one where we have taken the consideration of the trustworthiness of the interacting networking system, if we take the distributed parallel system which comes as an alternative to the existing peer-to –peer system. In this paper we look forward to the best of the trustworthiness by implementing the peer-to-peer based acknowledgement with the cryptography based security which makes the trust management of the system in the context of accuracy of data flow in terms of quality and throughput which we call as the efficiency. The Cloning mitigation is the one which is prevented by the proximity of the behavior of the acknowledgement which is high end cryptography based on the standardized protocol. In the era of the Information Technology world, w here Internet plays the important role in mentioning the whole world as the global village. In that aspect Communication medium is the back bone of the system. In the medium of the peer network where data flows form a source if hub through the routing protocol mechanism is the most important. In this paper, we try to put forward the concept of the Cryptographic key management for the managing the secure data transmission. Extending the support of the protocol where the encryption and decryption methodology plays to give the transmission. The key fact behind this paper is try give the extension to the classical mechanism where the optimization is not up to the mark of satisfaction. Here we consider the each and every node and its associated hub to attach to the parent node which we maintain the security sand optimization in the map reduced programming.

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KEYWORDS: Peer-to-peer systems, trust management, reputation, XML security, Fountain code, multipath TCP, rate less coding, scheduling.

I.INTRODUCTION

Early developments in peer-peer networks were motivated by military applications, which have the highest security requirements among the various applications of Peer-peer networks. Military sensing networks are designed to detect and gain as much information as possible about enemy movements, explosions, and other phenomena. Typically, peer nodes are integrated with military command, control, communications, computing, intelligence, surveillance, reconnaissance and targeting systems. Examples of military peer network applications include battlefield surveillance, guidance systems for intelligent missiles, detection of attacks by weapons of mass destruction such as nuclear, biological, or chemical weapons and other monitoring applications.

A centralized architecture is the easiest to implement since the notification service consists of a single component performing all relevant tasks. This component is typically referred to as a broker or a server. However, centralized solutions suffer from well-known weaknesses including lack of scalability and zero fault-tolerance, and are not considered suitable for realizing a large-scale publish/subscribe system. In distributed settings, content-based overlay networks consist of a collection of routers responsible for forwarding data towards interested subscribers. Content-based routers also called brokers; route data based on their content and are usually organized in mesh or tree-based configurations. The tasks performed by the notification service are distributed among these routers. This approach can achieve scalability as the size of the system grows depending on the protocols utilized. Peer-to-peer (P2P) networks are distributed systems consisting of a very large number of computing nodes that cooperate for sharing data without any centralized control.

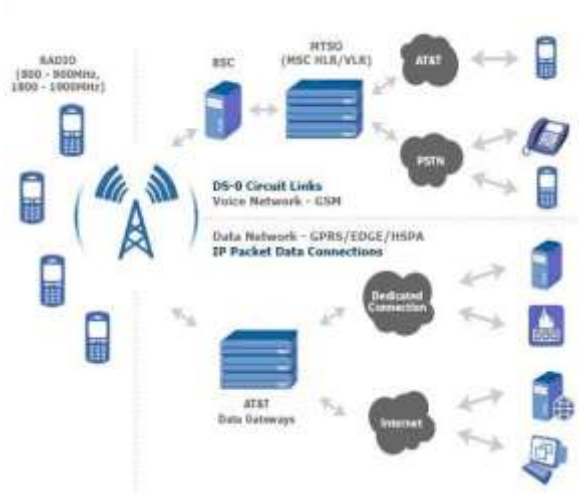

Fig.1.1 Illustration of the Peer-to-Peer Model View

They go beyond the typical client-server systems since each peer can play both the role of a client and a server. Some of their most desirable features include robustness, efficient search of data items, anonymity, massive scalability and fault tolerance.

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Because of these properties, several publish/subscribe systems have been implemented over P2P networks.

II.RELATED WORK

Peer-to-peer (P2P) networks are distributed systems consisting of a very large number of computing nodes that cooperate for sharing data without any centralized control. They go beyond the typical client-server systems since each peer can play both the role of a client and a server. Some of their most desirable features include robustness, efficient search of data items, anonymity, massive scalability and fault tolerance. Because of these properties, several publish/subscribe systems have been implemented over P2P networks. Peer-to-peer (P2P) networks are distributed systems consisting of a very large number of computing nodes that cooperate for sharing data without any centralized control.

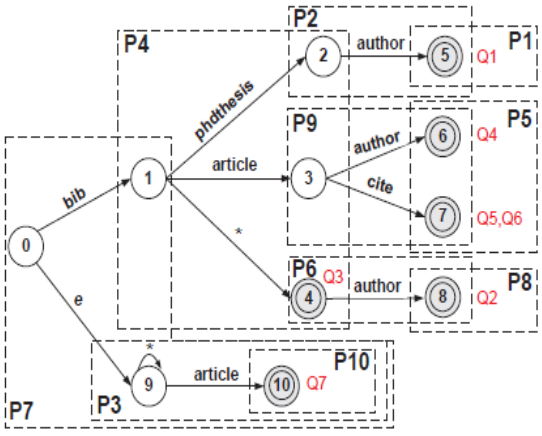

Fig. 2.1 Structural Flow of related Node in peer-peer System

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III.PROPOSED METHODOLOGY

Peer-to-peer (P2P) networks are distributed systems consisting of a very large number of computing nodes that cooperate for sharing data without any centralized control. They go beyond the typical client-server systems since each peer can play both the role of a client and a server. Some of their most desirable features

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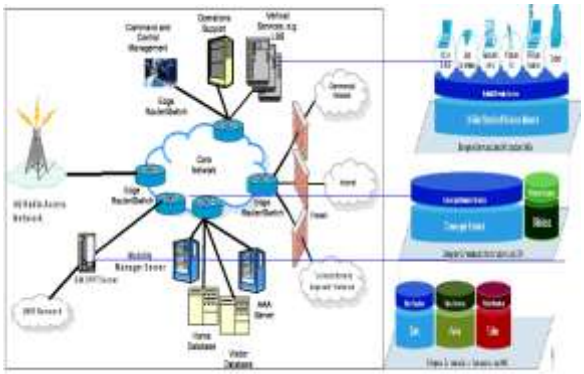

Fig. 3.1 Architectural Model View of the Peer-to-Peer XML Node based Acknowledgment

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IV.RESULTS AND DISCUSSION

Peer-to-peer (P2P) networks are distributed systems consisting of a very large number of computing nodes that cooperate for sharing data without any centralized control. They go beyond the typical client-server systems since each peer can play both the role of a client and a server. Some of their most desirable features include robustness, efficient search of data items, anonymity, massive scalability and fault tolerance. Because of these properties, several publish/subscribe systems have been implemented over P2P networks.

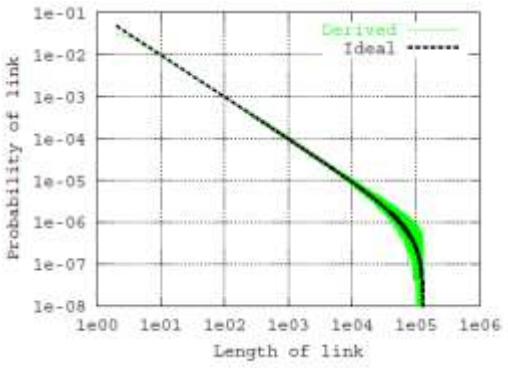

Fig. 3.1 1 Comparison of the Link with Length Probable

As a result, publish/subscribe systems have emerged in recent years as a promising paradigm. In this paper, we described an XML-based publish/subscribe system As a result, publish/subscribe systems have emerged in recent years as a promising paradigm.

V.CONCLUSION AND FUTURE WORK

Peer-to-peer (P2P) networks are distributed systems consisting of a very large number of computing nodes that cooperate for sharing data without any centralized control. They go beyond the typical client-server systems since each peer can play both the role of a client and a server. Some of their most desirable features include robustness, efficient search of data items, anonymity, massive scalability and fault tolerance. Because of these properties, several publish/subscribe systems have been implemented over P2P networks. As a

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VI.REFERENCES

[1] K. Aberer and Z. Despotovic, "Managing Trust in a Peer-2-Peer Information System," Proc. 10th Int'l Conf. Information and Knowledge Management (CIKM), 2001.

[2] F. Cornelli, E. Damiani, S.D.C. di Vimercati, S. Paraboschi, and P. Samarati, "Choosing Reputable Servents in a P2P Network," Proc. 11th World Wide Web Conf. (WWW), 2002.

[3] S. Kamvar, M. Schlosser, and H. Garcia-Molina, "The (Eigentrust) Algorithm for Reputation Management in P2P Networks," Proc. 12th World Wide Web Conf. (WWW), 2003.

[4] L. Xiong and L. Liu, "Peertrust: Supporting Reputation-Based Trust for Peer-to-Peer Ecommerce Communities," IEEE Trans. Knowledge and Data Eng., vol. 16, no. 7, pp. 843-857, July 2004.

[5] A.A. Selcuk, E. Uzun, and M.R. Pariente, "A Reputation-Based Trust Management System for P2P Networks," Proc. IEEE/ACM Fourth Int'l Symp. Cluster Computing and the Grid (CCGRID), 2004.

[6] R. Zhou, K. Hwang, and M. Cai, "Gossiptrust for Fast Reputation Aggregation in Peer-to-Peer Networks," IEEE Trans. Knowledge and Data Eng., vol. 20, no. 9, pp. 1282-1295, Sept. 2008.

[7] J. Kleinberg, "The Small-World Phenomenon: An Algorithmic Perspective," Proc. 32nd ACM Symp. Theory of Computing, 2000.

[8] S. Saroiu, P. Gummadi, and S. Gribble, "A Measurement Study of Peer-to-Peer File Sharing Systems," Proc. Multimedia Computing and Networking, 2002.

[9] M. Ripeanu, I. Foster, and A. Iamnitchi, "Mapping the Gnutella Network: Properties of Large-Scale Peer-to-Peer Systems and Implications for System Design," IEEE Internet Computing, vol. 6, no. 1, pp. 50-57, Jan. 2002.

[10] S. Saroiu, K. Gummadi, R. Dunn, S.D. Gribble, and H.M. Levy, "An Analysis of Internet Content Delivery Systems," Proc. Fifth USENIX Symp. Operating Systems Design and Implementation (OSDI), 2002.

[11] S. Marsh, "Formalising Trust as a Computational Concept," PhD thesis, Dept. of Math. and Computer Science, Univ. of Stirling, 1994.

[12] A. Abdul-Rahman and S. Hailes, "Supporting Trust in Virtual Communities," Proc. 33rd Hawaii Int'l Conf. System Sciences (HICSS), 2000.

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[13] B. Yu and M. Singh, "A Social Mechanism of Reputation Management in Electronic Communities," Proc. Cooperative Information Agents (CIA), 2000.

[14] L. Mui, M. Mohtashemi, and A. Halberstadt, "A Computational Model of Trust and Reputation for E-Businesses," Proc. 35th Hawaii Int'l Conf. System Sciences (HICSS), 2002.

[15] A. Jøsang, E. Gray, and M. Kinateder, "Analysing Topologies of Transitive Trust," Proc. First Int'l Workshop Formal Aspects in Security and Trust (FAST), 2003.

[16] E. Terzi, Y. Zhong, B. Bhargava, Pankaj, and S. Madria, "An Algorithm for Building User-Role Profiles in a Trust Environment," Proc. Fourth Int'l Conf. Data Warehousing and Knowledge Discovery (DaWaK), vol. 2454, 2002.

[17] Y. Zhong, "Formalization of Dynamic Trust and Uncertain Evidence for User Authorization," PhD thesis, Dept. of Computer Science, Purdue Univ., 2004.

[18] D.H. McKnight, "Conceptualizing Trust: A Typology and E-Commerce Customer Relationships Model," Proc. 34th Ann. Hawaii Int'l Conf. System Sciences (HICSS), 2001.

[19] P. Resnick, K. Kuwabara, R. Zeckhauser, and E. Friedman, "Reputation Systems," Comm. ACM, vol. 43, no. 12, pp. 45-48, 2000.

[20] Z. Despotovic and K. Aberer, "Trust-Aware Delivery of Composite Goods," Proc. First Int'l Conf. Agents and Peer-to-Peer Computing, 2002.