Available Online at www.ijcsmc.com

International Journal of Computer Science and Mobile Computing

A Monthly Journal of Computer Science and Information Technology

ISSN 2320–088X

IJCSMC, Vol. 2, Issue. 5, May 2013, pg.208 – 213

RESEARCH ARTICLE

Flexible Bloom for Searching Textual Content Based Retrieval System in an Unstructured P2P Overlay Networks

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Abstract— By using the fullest of a hybrid P2P protocol, Bloom Cast makes copies of the contents in the network uniformly at a random across the P2P networks in order to achieve a guaranteed recall at a communication cost of the network. BloomCast model works only when the two constraints are met: 1) the query replicas and document replicas are randomly and uniformly distributed across the P2P network; and 2) every peer knows N, the size of the network. To support random node sampling and network size estimation, BloomCast mixes a lightweight DHT into an unstructured P2P network. Further to reduce the replication cost, BloomCast utilizes Bloom Filters to encode the entire document. Bloom Cast hybridizes a lightweight DHT with an unstructured P2P overlay to support random node sampling and network size estimation. Since P2P networks are self-configuring networks with minimal or no central control, P2P networks are more vulnerable to malwares, malicious code, viruses, etc., than the traditional client-server networks, due to their lack of structure and unmanaged nature. All peers in a P2P network is identified by its identity certificates. The identity here is attached to the repudiation of a given peer. Self-certification helps us to generate the identity certificate, thus here all the peers maintain their own and hence trusted certificate authority which issues the identity certificate to the peer.

Key Terms: - Bloom Cast; Bloom Filters; Self-Certification; Self-Configuring Networks; Unstructured P2P network

Full Text: http://www.ijcsmc.com/docs/papers/May2013/V2I5201371.pdf