Abstract

In the Peer-to-Peer networks Web caching plays an important role in reducing the network delays, latency of the user response and the server load. Still web caching is of great challenge as the maintenance of object copies at multiple nodes is the issue of trustworthiness, consistency and optimal resource placement. The en-route web caching strategy along with the reputation aggregation method can produce valuable solution to this issue. In this paper every
request for web objects are traced at every node in the request path. These traces at the peers are used to predict the data popularity of each web objects. The popular web contents are requested and cached in different trustworthy nodes with effective resource placement strategy in order to improve the hit rate of the network. Trustworthiness calculation is the reputation aggregation of the Response provider node obtained at every node.

Reference


Index Terms

Computer Science        Wireless

Key words
En-Route Web Caching in Trustworthy Structured Peer-to-Peer Networks

Distributed Hash Table

Web Caching

Trustworthiness

Resource Replacement