

Performance evaluation of some DHT (Distributed Hash Table) protocols in P2P networks

Tran Trung Kien

Abstract: This topic focuses on evaluating the performance of Distributed Hash Table (DHT) protocols through experiments on P2P networks. The context for selecting this topic is based on the necessity of optimizing resource management and reducing network load through the use of DHT. The objective of the research is to develop an efficient distributed system, enhance rapid data retrieval capabilities, and ensure the stability of P2P networks. The method applied combines theory and experimentation to identify the advantages and limitations of each DHT protocol. Through this, the topic aims to provide an optimal alternative solution for current distributed systems, contributing to the development of P2P technology.

Keywords: DHT, P2P network, performance, distributed hash table, testing