Abstract

Dual-Path is an anonymous peer-to-peer approach which provides requester anonymity. This approach provides anonymity between a requester and a provider in peer-to-peer networks with trusted servers called suppernode so the provider will not be able to identify the requester and no other peers can identify the two communicating parties with certainty. Dual-Path establishes two paths for transmitting data. These paths called Request path and Response path. The first one is used for requesting data and the second one is used for sending the requested data to the requester. As Dual-Path approach is similar to Crowds approach, this article compares reliability and performance of Dual-Path and Crowds. For this purpose a simulator is developed and several scenarios are defined to compare Dual-Path and Crowds in different situations. In chapter 2 and 3 Dual-Path and Crowds approaches are briefly described. Chapter 4 is talking about simulator. Chapter 5 explains the scenarios for comparison of performance. Chapter 6 is about comparison of reliability and chapter 7 is conclusion.
Analyzing the Dual-Path Peer-to-Peer Anonymous Approach

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