Abstract

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Improving Tor Performance using Tor Optimizer with reference to Client Experience

Tor is one of the most important anonymous Networks that provides privacy for communication between parties using the Onion Routing Protocol. This Network became widely used by many Tor Clients. At the moment the Tor Network is used by over 3,250,000 user (Fig. 1), Tor Bridges are about 3800 Operator Router (Fig. 2) [1], Since the number of Users is larger than the number of Routers the Tor Performance is one of the most important topics in Tor anonymous Network. To improve the Tor performance from the end user perspective. Tor uses a path Selection technique depends on weighted method for self-advertised bandwidth this make the attacker publish unreal information about his router to compromise the Network and make it slower. The objective of this paper is to improve the Tor Network Performance from the end user perspective, Put a set of packages for the Tradeoff between Performance and Anonymity, Giving the choice to the user to choose. A new protocol was developed that works as an add-on