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Exercise No. 8

Peer-To-Peer Networks

Summer 2008

Exercise 13 *Onion routing*

Chaum's Mix Cascades can send a message anonymously from a peer A to a target peer B. Extend the algorithm such that the target peer B can send anonymously an answer to A without revealing A's identity (i.e. IP address) to B.

Design an Onion Routing algorithm where after sending and replying B does not know A and the send and reply messages cannot be distinguished by all other nodes (except A).

Exercise 14 *TOR*

Use TOR to disguise a web access. Check your external IP address against your true IP address. Can you change your external IP address to a specific value? Can you change it at all?