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TOR deanonymisation research (MIP)

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OPC-MCR Mathematical Information Processing Research Task: TOR deanonymisation

Customer: ICTR-NE
Status: in pullthrough (started December 2010)

MCR lead: [REDACTED]
Team: [REDACTED]
(ICTR-NE)

Can we denonymise [TOR](#)? In other words, if given some traffic from a TOR exit node, can we find the IP address of the user associated with that traffic?

[\[edit\]](#) Research

A circuit tracing attack was first considered. However ICTR-NE signatures run by TSDS showed that our coverage of TOR is too low to have a reasonable chance of doing such an attack; on JTRIG paths we only saw 2 out of 8294 potential inter-TOR-node links.

Instead we are now considering an entry-exit correlation attack. Data collected from ICTR-NE/JTRIG infrastructure showed that some timing structure is preserved between entry and exit node.

Mathematical Information Processing Research

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The successful outcome of this entry-exit correlation attack is documented in [OPC-M/TECH.B/61](#). An R package implementing the attack is available: [src](#), [doc](#).

The work was presented at [SANAR11](#). The slides are [here](#).

We plan to prototype the technique in the [REMATION II](#) workshop. The introductory slides are [here](#).

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