

OONI: Open Observatory of Network Interference

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¹The Tor Project

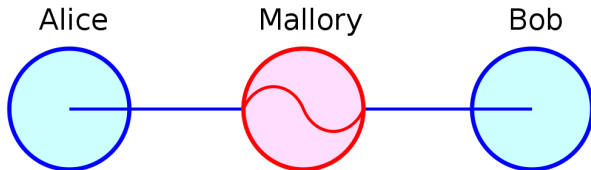
²Open Rights Group

Day 3 / Lightning Talks

What is OONI?

- Its a set of principles and test specifications for conducting network measurements.
- Measuring network irregularities that can be a symptom of internet censorship and surveillance since 2012.
- Uses a peer reviewed methodology, implemented using free software and publishing the data.

Interference in the Network¹



- Traffic Manipulation
 - Is my traffic being intercepted?
 - DPI, Downgrade attacks, ...
- Content Blocking
 - What is being blocked?
 - Unavailable websites, trigger keywords, ...

¹Image credit: http://commons.wikimedia.org/wiki/File:Man_in_the_middle_attack.svg

Why is this important?

- OONI makes data available for everyone under an open license
 - useful to journalists, researchers and activists
 - promotes transparency for network interference on the Internet

Open Methodologies

- By having openly known and peer reviewed methodologies:
 - the results produced have scientific value
 - the research is reproducible and verifiable
- Methodologies are described in plain English as well as in code

Test Focussed

- Plain English descriptions are written before code
- Allows for focus on the tests as opposed to a focus on implementation
- Allows for the construction of a taxonomy of surveillance, censorship and other interference

Open Implementation

- OONI's implementations are available as FLOSS
- Those interested in expanding it will be able to do so freely
- Allows it to be sustained as a base for future work
- A FLOSS tool has the most likely chance of being studied and improved by the research community

Low barrier to entry

- Probes are hosted by volunteers
- Anyone can volunteer to host a probe
- Volunteers can choose which tests they run
- Volunteers can choose how much data they want to submit

Open Data

- The rate of discovery and scientific progress is accelerated by better access to data
- All of the data collected by OONI is released to the public under an open license
- This allows anybody to freely use and republish this information as they wish without restriction
- High-level summaries are not enough

- OONI has been used by a series of independent researchers in order to conduct their measurements
 - Analysis of Iran Wikipedia censorship (May 2013)
 - WCMT: Web Censorship Monitoring Tool (June 2013)
 - Measurement of internet censorship in Indonesia (October 2013)

Get Involved!

Join the fight against surveillance and censorship by adopting an ooniprobe. Feed it power and internet packets to watch it grow!

“Adopt an ooniprobe”: 1800 Tomorrow at the Noisy Square Assembly

<http://ooni.torproject.org/>