OPEN OBSERVATORY OF NETWORK INTERFERENC

(ONI)

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Language: English, Portuguese
Since 2012, OONI has collected millions of network measurements across more than 190 countries around the world, shedding light on various instances of network interference.
WHAT IS OONI?
Detect censorship and signs of network tampering

Shares observations and data about the nature, methods, and prevalence of censorship and network tampering around the world, through the use of open methodologies and FLOSS tools
OPEN DATA MODEL

- Network measurement data (reports) submitted by volunteers
- Complete dataset (from 2012) available to use/download
EVIDENCE OF INTERNET CENSORSHIP

- Transparency: What is blocked, where and how? What is the *health* of the network that we are using?
- Legality: Can the blocking of specific types of sites and services be legally justified?
- Story-telling & Advocacy: What is the impact of censorship on human rights?
DATA REPRESENTATION

OONI explorer
OONI TESTING METHODOLOGY
- Blocking of websites
- Blocking of instant messaging apps
- Blocking of censorship circumvention tools (Tor, VPN, Psiphon, Lantern)
- Detection of *middle boxes* proxy technologies that could be responsible for censorship and/or surveillance
- Speed and network performance tests (NDT)
OONI MEASUREMENTS IN LATAM
PIRATEBAY BLOCKED IN ARGENTINA
Web Connectivity 2017-03-23 06:24:01 UTC

20170323T062328Z_AS7303_UYQj7sql3cX&qzrzXjRGZ4QCHf61CnALEmLqcOjoFxpyIshSmI4

Test runtime: 1.82408 seconds

Network: Telecom Argentina S.A., AR ( AS7303 )  Name: ooniprobe-android  Version: 1.1.2

This measurement contains data that could be a sign of network tampering or censorship.

Site
https://thepiratebay.se
Option for blocking: dns
measurements for URL.
NEWS WEBSITE NTN24 BLOCKED IN VENEZUELA
Web Connectivity 2017-03-03 03:48:36 UTC

Last runtime: 4.69504 seconds

**Network:** CANTV Servicios, Venezuela, VE (AS8048)  **Name:** ooniprobe  **Version:** 2.0.1

This measurement contains data that could be a sign of network tampering or censorship.

**Website**
http://ntn24.com

**Reason for blocking:** dns

**measurements for URL**
WHATSAPP BLOCKED IN BRAZIL

# OONI Probe Report for http_requests (0.2.5)
# Mon May 2 23:17:02 2016

probe_asn: AS26615
probe_cc: BR
software_name: ooniprobe
software_version: 1.4.2
test_helpers: {}
test_name: http_requests
test_start_time: '2016-05-02 21:17:02'
test_version: 0.2.5
... 
agent: agent
body_length_match: null
OONI RESULTS (1/4)

- March 2017: Thailand blocked news and censorship circumvention tool websites
- December 2016: Malaysia block pages and censorship
- December 2016: Ethiopia DPI used to block media websites during major political protests
OONI RESULTS (2/4)

- December 2016: Belarus blocked Tor
- October 2016: Zambia blocked websites during general elections
- May 2016: Uganda blocking of social media
OONI RESULTS (3/4)

- May 2016: Brazil blocked WhatsApp
- June 2015: Greece and EEEP blocklists
- July 2013: Zambia, a country under Deep Packet Inspection
OONI RESULTS (4/4)

- May 2013: Uzbekistan and Turkmenistan Internet filtering and DPI
- April 2012: Hadara Palestine Internet agency Hadara restricts access to certain content for users in Bethlehem
- March 2012: T-Mobile USA Web Guard Parental controls blocked number of websites (Newgrounds, Cosmopolitan Magazine, and the Tor Project
OONI STATISTICS
• Millions of network measurements collected from 190+ countries
• 2766+ unique ASNs
HELP REVEAL INTERNET CENSORSHIP
Install ooniprobe

To install ooniprobe on Raspberry pi devices see our lepidopter install guide

To install ooniprobe on unix based systems read our installation guide
• Available for: Linux, Mac OS, Raspberry Pi, IOS, Android
• Source code: https://github.com/TheTorProject/ooni-probe
GET INVOLVED

- IRC: #ooni on OFTC
- Mailing lists: ooni-dev, ooni-talk, ooni-operators
- Code: https://github.com/TheTorProject/ooni-probe
  (Mirror: https://gitweb.torproject.org/ooni-probe.git)
- Submit URLs for testing: https://ooni.torproject.org/get-involved/contribute-test-lists
- Partnerships: https://ooni.torproject.org/get-involved/partnership-program/