Civil Rights Defenders, Defender's Days

Andrew Lewman andrew@torproject.org

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Crash course

- Anonymity Online
- ▶ Internet Freedom
- Tor and Tails
- ▶ Download Tor Browser & Use it
- Try tails (for non-Macs)
- ► Try Orbot, Firefox, Proxymob

Who is this guy?

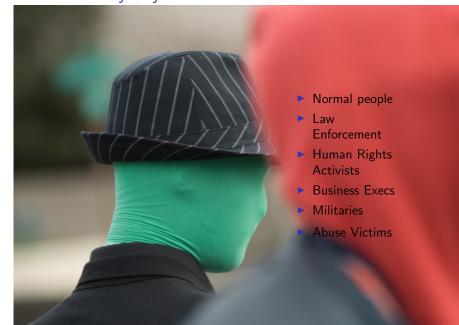
501(c)(3) non-profit organization dedicated to the research and development of technologies for online anonymity and privacy

https://www.torproject.org





Who wants anonymity online?



How many people want anonymity?

No idea. We're an anonymity system.

However, the National Science Foundation has funded us to learn more:

https://metrics.torproject.org/

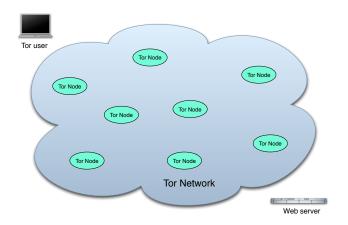


Diagram: Robert Watson

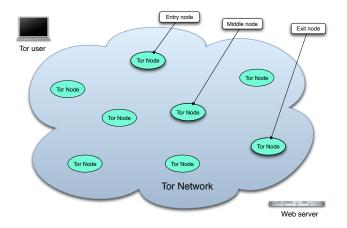


Diagram: Robert Watson

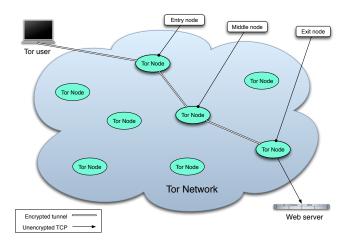
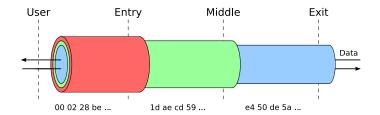


Diagram: Robert Watson



Internet Freedom

Governments of the Industrial World, you weary giants of flesh and steel, I come from Cyberspace, the new home of Mind. On behalf of the future, I ask you of the past to leave us alone. You are not welcome among us. You have no sovereignty where we gather.

— John Perry Barlow, "A Declaration of the Independence of Cyberspace"

February 8, 1996



Dear User, أروزي المستخدم،

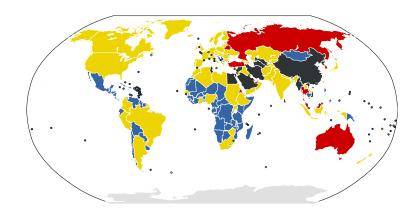
Sorry, the requested page is unavailable.

عفواً، المو قع المطلوب غير متاح.

If you believe the requested page should not be blocked please <u>click here</u>.

إن كنت ترى أن هذه الصفحة ينبغي أن لا تُحجب تفضل بالضغط هنا.

For more information about internet service in Saudi Arabia, please click here: www.internet.gov.sa لمزيد من المعلومات عن خدمة الإنترنت في المملكة العربية السعودية، يمكنك زيارة المو قع التالي: <u>www.internet.gov.sa</u>





Major ISPs agree to "six strikes" copyright enforcement plan

By Nate Anderson | Published 9 months ago



American Internet users, get ready for three-strikes "six strikes." Major US Internet providers—including AT&T, Verizon, Comcast, Cablewision, and Time Warner Cable—have just signed on to a voluntary agreement with the movie and music businesses to crack down on online copyright infringers. But they will protect subscriber privacy and they won't filter or monitor their own networks for infringement. And after the sixth "strike," you won't necessarily be "out."

| 10.541 | | https > 50936 [SYN, | |
|---------|-----------|-----------------------|-------|
| 10.341 | I (50936) | III LPS > 30936 [31N, | (443) |
| 0.541 | (30930) | 50936 > https [ACK] | (443) |
| 10.341 | I (50936) | 30930 > Https [ACK] | (443) |
| 0.542 | (30930) | Client Hello | (443) |
| 10.342 | l (50936) | CCIENT NECTO | (443) |
| 11.030 | 1 (30330) | https > 50936 [ACK] | (443) |
| 1.030 | l (50936) | (100 ps = 30330 [ACK] | (443) |
| 11.033 | 1 (30330) | Server Hello. | (443) |
| 1 | l (50936) | < | (443) |
| 11.124 | 1 (30330) | 50936 > https [ACK] | (443) |
| 1 | (50936) | | (443) |
| 2.079 | 1 | [TCP Previous segme | (, |
| 12.0.0 | (50936) | < | (443) |
| 12.079 | 1 | [TCP Dup ACK 12#1] | |
| i | i (50936) | > | (443) |
| 15.563 | i i | [TCP Retransmission | |
| ĺ | i (50936) | < | (443) |
| 5.563 | İ | 50936 > https [ACK] | |
| Í | (50936) | > | (443) |
| 6.008 | İ | [TCP Retransmission | |
| 1 | (50936) | < | (443) |
| 6.008 | 1 | 50936 > https [ACK] | |
| 1 | (50936) | > | (443) |
| 16.025 | 1 | Client Key Exchange | |
| 1 | (50936) | > | (443) |
| 17.533 | 1 | [TCP Retransmission | |
| Į. | (50936) | > | (443) |
| 20.735 | 1 | [TCP Retransmission | |
| Į. | (50936) | > | (443) |
| 21.127 | | [TCP Previous segme | |
| ! | (50936) | < | (443) |
| 26.447 | (=====) | 50936 > https [FIN, | |
| 100 740 | (50936) | F | (443) |
| 26.743 | l (50936) | Encrypted Alert | (443) |
| 26.743 | (50936) | E0036 - b++no [DCT] | (443) |
| 20.743 | l (50936) | 50936 > https [RST] | (443) |
| 1 | (30936) | > | (443) |

| Tracker | Number of unique domains found on | Percent of all unique domains |
|-----------------------------|--------------------------------------|----------------------------------|
| Google Analytics | 329,330 | 84% |
| Google Adsense | 162,584 | 41% |
| DoubleClick | 122,483 | 31% |
| Statcounter | 26,806 | 7% |
| AddThis | 24,126 | 6% |
| Quantcast | 24,113 | 6% |
| Google Custom Search Engine | 20,601 | 5% |
| OpenAds | 17,608 | 4% |
| Omniture | 13,126 | 3% |
| Wordpress Stats | 11,475 | 3% |

Figure 11 Percentage of Domains each Web bug was found on, March 2009



...spring is in the air...



An example from Iran



Software

We write a lot of free software.

About half is GPLv2 and the other half 3-Clause BSD.

Software

We write in C, C++, python, ruby, shell, javascript, java, perl, and whatever else I forgot.

All our code is available at Tor's gitweb, https://gitweb.torproject.org or our old svn server, https://svn.torproject.org/.

Software - People

33 core people. 6 female and 27 male.

12 countries. Virtual team, virtual office.

we talk via email, IRC, and XMPP.

5,000+ volunteers, 85 countries.

See what we've done in the past few years in our 2012 Annual Report

https://www.torproject.org/about/findoc/2012-TorProject-Annual-Report.pdf

Software - Products

We focus on six main products:

- tor browser, https://www.torproject.org/projects/torbrowser
- arm, http://www.atagar.com/arm/
- atlas/compass/metrics, https://(atlas|compass|metrics).torproject.org
- Pluggable Transpors, https://www.torproject.org/docs/pluggabletransports.html.en
- tor cloud, https://cloud.torproject.org and
- tor itself.

Software - Tor Ecosystem

Growing ecosystem of products:

- ▶ tails, https://tails.boum.org
- orbot, https://guardianproject.info
- torchat, https://github.com/prof7bit/TorChat
- TorTV, http://www.dyne.org/software/tortv/
- Torouter, https://trac.torproject.org/projects/tor/wiki/doc/Torouter
- Onion Browser, https://mike.tig.as/onionbrowser/

Anonymous Operating System - Tails

Tails is a live DVD or live USB that aims at preserving your privacy and anonymity.

It's based on Debian Stable.

Anonymous Operating System - Tails

It's used in 94 countries with an average client boot seen every 24 seconds around the clock.

We sponsor Tails.

We're doing a bug bounty program. This will fix a lot of bugs/feature requests in upstream.

Tails



Company

The Tor Project, Inc runs on free software.

We believe in transparency and sharing. Our code, designs, and content are all freely licensed (3-Clause BSD, GPL, or CC-BY-3.0)

We publish our tickets, discussions, and contract details with the world on our wiki, https://wiki.torproject.org.

Thanks!



Visit https://www.torproject.org for more information, links, and ideas.

Copyrights

- applied theory, first image: Reporters without Borders, http://www.rsf.org
- applied theory, second image: Tor Project, Inc, https://blog.torproject.org/blog/update-internet-censorshipiran
- applied theory, third image: Information Week,2011-04-09, http://www.informationweek.com/news/security/attacks/229400850
- applied theory, fourth image: Al Jazeera, February 2011
- spring is in the air, Paco Pomet, http://pacopomet.wordpress.com/