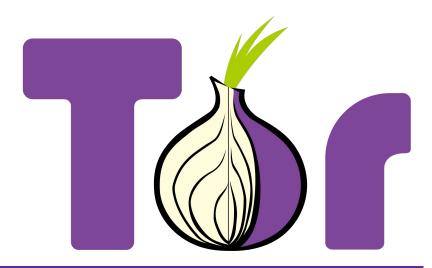
The Tor Project

Nathan Smith



The Tor Project, Inc., CC BY 3.0 US https://creativecommons.org/licenses/by/3.0/us/deed.en, via Wikimedia Commons

What is the Tor Project?

"All of the people who have been involved in Tor are united by a common belief: internet users should have private access to an uncensored web." (History)

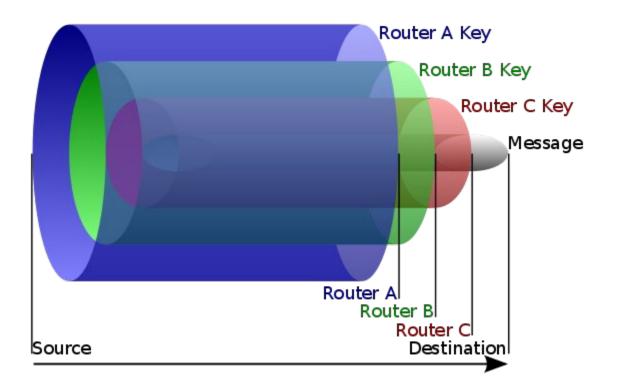
History

• Founded in 2006

"In the 1990s, the lack of security on the internet and its ability to be used for tracking and surveillance was becoming clear, and in 1995, David Goldschlag, Mike Reed, and Paul Syverson at the U.S. Naval Research Lab (NRL) asked themselves if there was a way to create internet connections that don't reveal who is talking to whom, even to someone monitoring the network." (History)

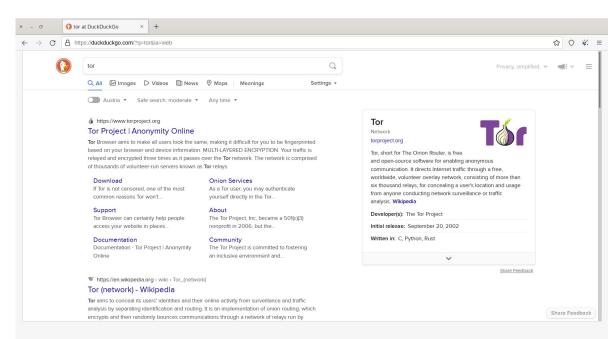
Onion Routing

English Wikipedia user HANtwister, CC BY-SA 3.0 http://creativecommons.org/licenses/by-sa/3.0/, via Wikimedia Commons



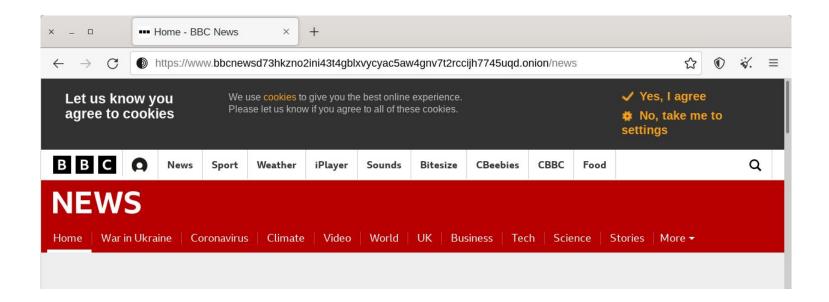
The Project

- Started by Roger Dingledine
- Funding from EFF
- Tor Browser began in 2008



Hidden Services (or Onion Sites)

- Special web services accessible through Tor
- Don't expose IP addresses



Surface vs. Deep vs. Dark Webs

Tor Mission Statement

"To advance human rights and freedoms by creating and deploying free and open source anonymity and privacy technologies, supporting their unrestricted availability and use, and furthering their scientific and popular understanding."

Circumventing Censorship

- Side effect of redirecting traffic
- Ethics depends on what's being censored

Privacy/Anonymity

- Tor is a tool
- Utilitarianism

Unethical Uses for Tor

Dark Web Marketplaces

- Buying and selling of illegal goods
- Silk Road







Federal Bureau of Investigation, Public domain, via Wikimedia Commons

Hacking Communities

"In terms of cybersecurity threats, hacking communities are active on Dark Web platforms, where hackers exchange experiences and share information, in addition to circulating hacking tools, malware, ransomware, breached data, and planning large-scale cyberattacks resembling a pattern of an organized crime." (Basheer and Aklhatib 2-3)

Selling data, tools, and services on marketplaces

Other Unethical Uses

"Child pornography and pedophile networks, drugs and arms trade, human trafficking, terrorism and recruitment of extremists, planning terrorist attacks, murderers for hire, hacked digital media trade, counterfeit documents, fraud, and many others." (Basheer and Aklhatib 2)

Ethical Uses for Hidden Services

Whistle Blowing

- Safety for whistleblowers
- OnionShare



0

Trump's representatives did not respond to requests for comment, except for his attorney in the lawsuit against Twitter. And thanks to the Trump's Legal Problems blog and Just Security for pointing us in the right direction for a few cases.

We'll continue updating the tracker as the lawsuits and investigations progress (and new ones arise). Think we're missing something? Please email zeverson@forbes.com or reach out securely and anonymously via OnionShare on the Tor browser.

By Zach Everson

Business Filings

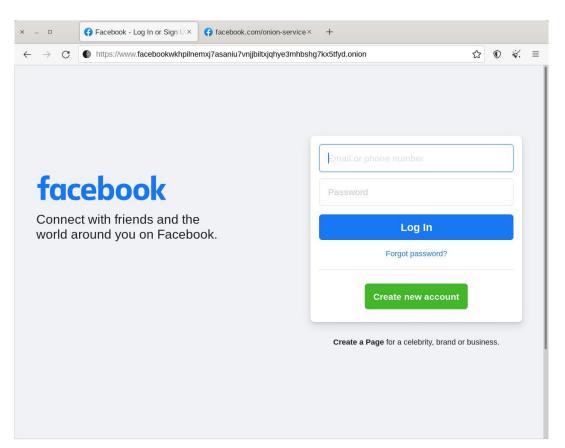
13 item

Fig. 1. Everson, Zach. "Tracking Trump: A Rundown Of All The Lawsuits And Investigations Involving The Former President." Forbes, 16 Mar. 2022,

www.forbes.com/sites/zacheverson/2022/02/10/tracking-trump-ar undown-of-all-the-investigations-and-cases-involving-the-former-president/?sh=4a1ab45a7f24. Accessed 19 Mar. 2022.

Surface Web Mirrors

- BBC
- CIA
- Facebook
- Twitter
- Deutsche Welle
- The NYT
- DuckDuckGo
- Many others



Other Ethical Uses

- NGOs
- Activist Groups
- Corporations
- Governments
- Law Enforcement
- General Browsing

Issues Facing Ethical Analysis

- Too many conceivable uses for Tor
- Subjectivity

Arguments For and Against

For Tor

"Without Tor in the world, the bad actors will find another tool to achieve their objectives. With Tor in the world, the good actors will continue to have a tool and experts committed to providing safe online channels of communication." (Misata 45)

For Tor

"Illegal or antisocial behavior is technology indiscriminate. Criminals will select technology opportunistically, and their use of it in most cases says nothing about the technology itself. Anonymizing services aren't "bad faith" technologies." (Berghel 87)

Against Tor (Censorship)

- Russia blocking Tor nodes in 2021.
- China's Great Firewall.

EARN IT

- EARN IT act possibly reducing safe harbor protections for web hosts.
- Would most likely effect Tor nodes.

Is there an answer?

- Depends on personal beliefs
- Natural or Prudential right to privacy
- Restriction to limit or prevent actions that are bad for society
- Deeply sensitive issues

Sources

Basheer, Randa, and Bassel Alkhatib. "Threats from the Dark: A Review over Dark Web Investigation Research for Cyber Threat Intelligence." Journal of Computer Networks and Communications, vol. 2021, Hindawi, 2021, pp. 1–21, https://doi.org/10.1155/2021/1302999.

Berghel, Hal. "Which Is More Dangerous--the Dark Web or the Deep State?" Computer (Long Beach, Calif.), vol. 50, no. 7, IEEE, 2017, pp. 86–91, https://doi.org/10.1109/MC.2017.215.

"Censorship." Tor Project, https://support.torproject.org/censorship/. Accessed 19 Mar. 2022.

De Chant, Tim. "Twitter coincidentally introduces Tor service following Russian censorship." Ars Technica, 10 Mar. 2022, arstechnica.com/tech-policy/2022/03/twitter-rolls-out-tor-service-amid-reports-of-russian-censorship/. Accessed 15 Mar. 2022.

"History." Tor Project. www.torproject.org/about/history. Accessed 15 Mar. 2022.

Goodin, Dan. "Tor is under threat from Russian censorship and Sybil attacks." Ars Technica. 8 Dec. 2021,

arstechnica.com/information-technology/2021/12/tor-is-under-threat-from-russia n-censorship-and-sybil-attacks/. Accessed 15 Mar. 2022.

Greenberg, Andy. "The Grand Tor: How to Go Anonymous Online." Wired. 9 Dec. 2017, www.wired.com/story/the-grand-tor/. Accessed 15 Mar. 2022.

Marks, Joseph. "Most cyber pros give thums down to the EARN IT Act." The Washington Post. 23 Feb. 2022, www.washingtonpost.com/politics/2022/02/23/most-cyber-pros-give-th umbs-down-earn-it-act/. Accessed 15 Mar. 2022.

Misata, Kelley. "The Tor Project: An Inside View." Crossroads (Association for Computing Machinery), vol. 20, no. 1, ACM, 2013, pp. 45–47, https://doi.org/10.1145/2510125.

Muffett, Alec. "Real-World Onion Sites." GitHub, https://github.com/alecmuffett/real-world-onion-sites/blob/master/REA DME.md#education. Accessed 15 Mar. 2022.

"How Do Onion Services Work?" Tor Project, community.torproject.org/onion-services/overview/. Accessed 18 Mar. 2022.

Tor Project. Tor Project, www.torproject.org/. Accessed 15 Mar. 2022.