

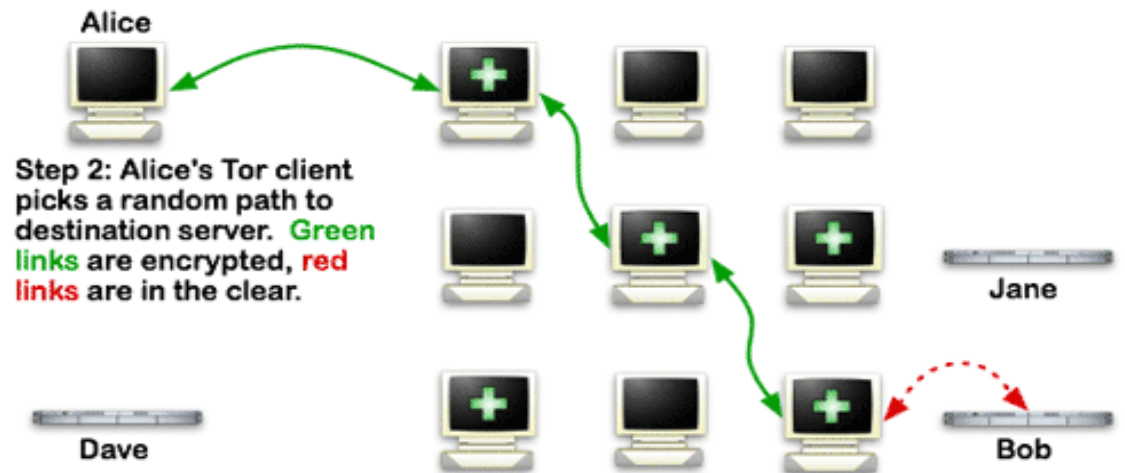
An Intro to Tor

By Adam Levin

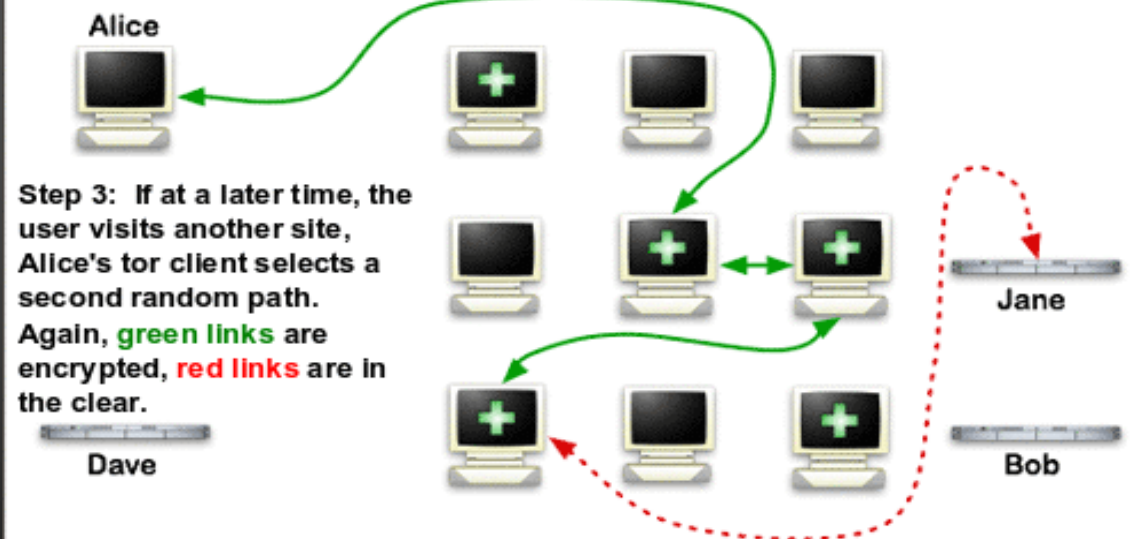
What is Tor?

- From '<https://www.torproject.org>'
 - “Tor network is a group of volunteer-operated servers that allows people to improve their privacy and security on the Internet”
- Rather than making a direct connection to a website, the Tor software connects users to destinations through a series of virtual tunnels.

How Tor Works: 2



How Tor Works: 3



Who uses Tor?

- Legitimate use cases:
 - Government
 - Intelligence gatherers who want to obscure their identity online
 - Citizens or visitors in countries that have blocked certain websites (you can specify IP address only from certain locations)
 - Whistleblowers who want to remain anonymous
 - Lower prices on ecommerce?
 - Corporations who want to avoid being monitored by competitors

Data Science?

- Scraping!
 - Potentially avoid being locked out as a results of scraping sites manually over and over
 - Scraping google is tricky. Other sites might not be as smart. You'll have to see for yourself.

Demo

<http://icanhazip.com>

<http://www.infobyip.com>

<https://check.torproject.org>

Gist

- [https://gist.github.com/adamwlev/
ce14a988a0b859d424d01543970b45d0](https://gist.github.com/adamwlev/ce14a988a0b859d424d01543970b45d0)

Credits/References

- Credit: Michelle for telling me about Tor
- References: <https://www.torproject.org>