What is Tor
Tor in a Nutshell
Dos and Don'ts
Hidden Services
Where to go from here

Short Introduction to Tor

https://cryptoparty.dk

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Tor Trivia

- ▶ Tor is acronym for The Onion Router
- ▶ Is infamously known in the media as "The Dark Web"
- ▶ mid 1990s Onion Routing was developed
- ▶ In 2002 the first alpha version of Tor was released
- ▶ In 2004 Tor was released as free and open source
- ▶ In 2006 The Tor Project was founded

[0]https://en.wikipedia.org/wiki/Tor_%28anonymity_network%29

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Tor Family

- ▶ Tails (OS on a stick)
- ▶ Orbot (Android browser)
- ▶ Stem (Dev library)
- ▶ ...

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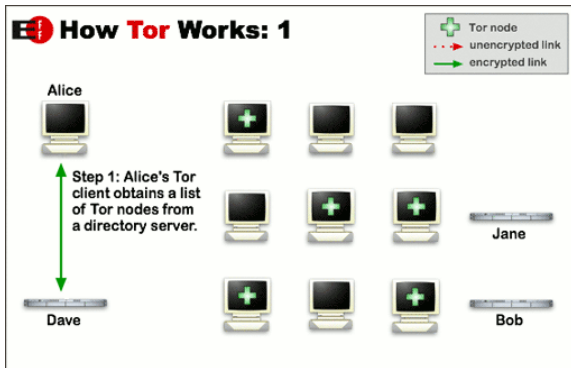
Users of Tor

- ▶ Journalists
- ▶ IT Professionals
- ▶ People that
  - ▶ Want to protect their privacy
  - ▶ Hide from targeted marketing
  - ▶ Want to access censored websites
  - ▶ Blog/tweet without being traced
  - ▶ ...
- ▶ Human rights activists (HRW, EFF, . . .)
- ▶ Military
- ▶ Intelligence agencies
- ▶ . . .

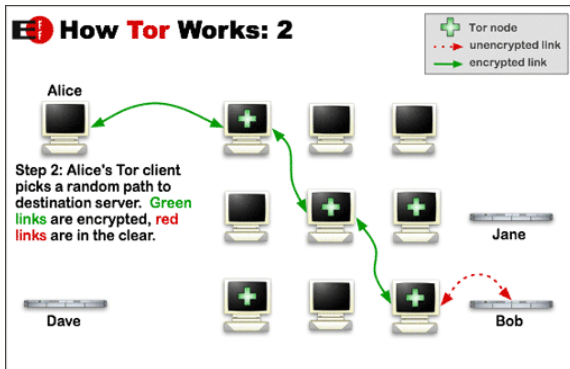[0] https://www.torproject.org/about/torusers.html#en

Terminology

- ▶ Bridge Node
- ▶ Relay
- ▶ Exit Node

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Directory listing

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Onion Routing

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Not Entirely Unlike Ogres
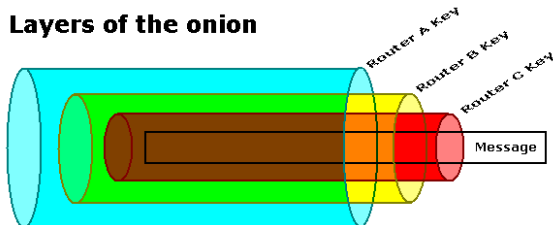
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Anonymity

How Tor Works: 3

Step 3: If at a later time, the user visits another site, Alice's tor client selects a second random path. Again, green links are encrypted, red links are in the clear.

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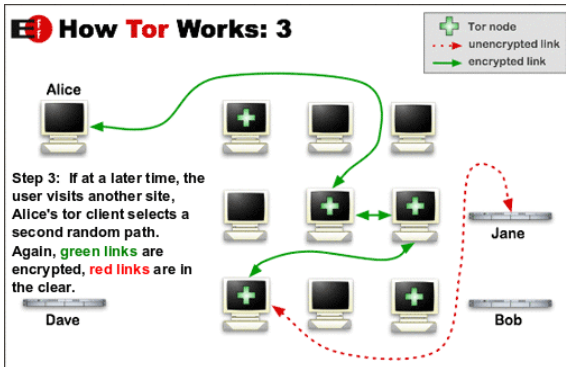
Do

- ▶ Use it when you need anonymity
- ▶ Use it to help others obtain anonymity by
    - ▶ Setting up a Tor node
    - ▶ Use Tor responsibly
- ▶ Learn more
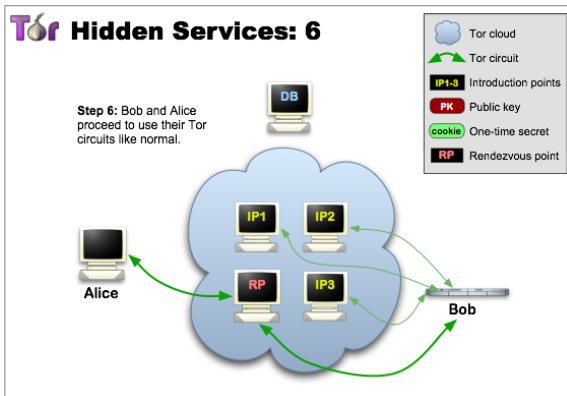
Don't

- ▶ Download binaries
- ▶ Use it for illegal purposes
- ▶ Torrent
- ▶ Trust anything blindly

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Important notice!

Being anonymous on the internet does not allow you to hurt people or to be an asshole!

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Hidden Services

▶ Anonymous sender *and* receiver

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Resources

WWW https://torproject.org

IRC #tor on irc.oftc.net

Mail https://lists.torproject.org/cgi-bin/
     mailman/listinfo/tor-talk/

Slides https:
      //github.com/rlindsgaard/presentations/
      2015-01-24-short-introduction-to-tor/

   #cryptopartycph on irc.freenode.net