

Image courtesy torproject.org

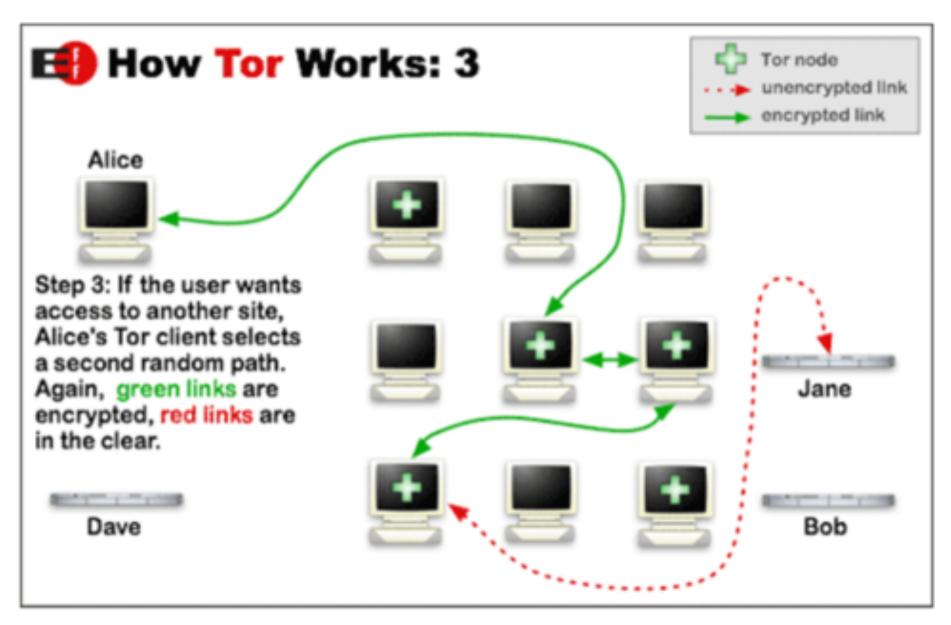


Image courtesy torproject.org

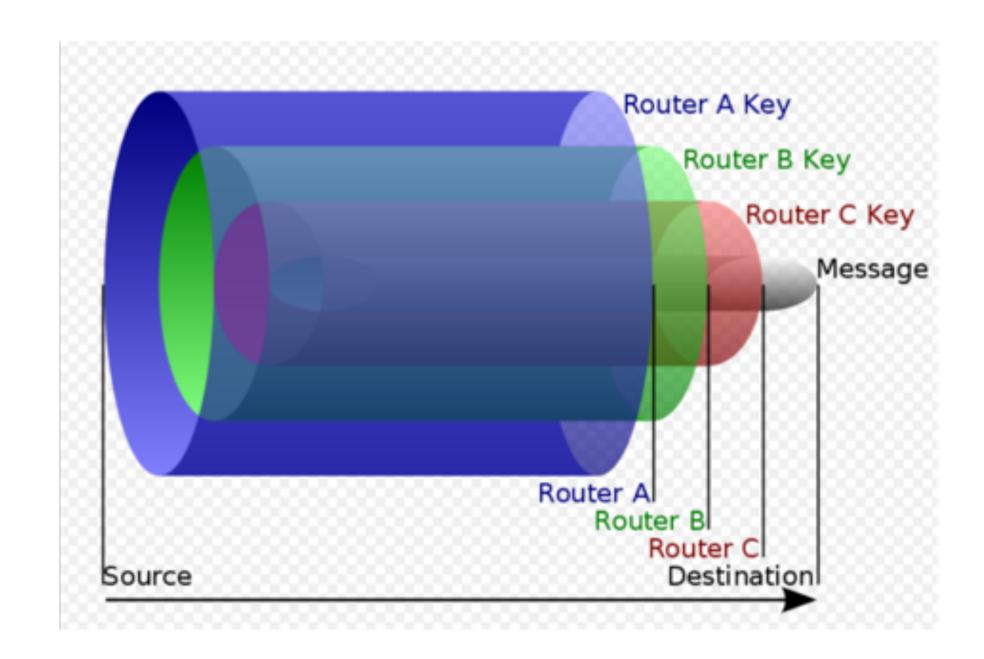


Photo courtesy Wikimedia Commons

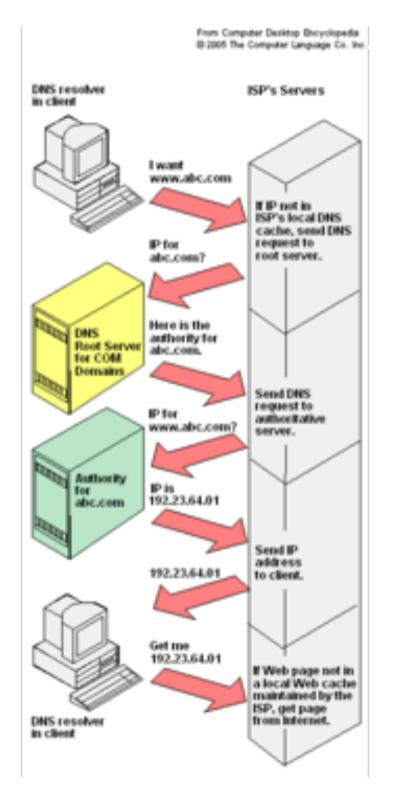
The 3 Traditional Threats to Tor's Security:

- DNS Leaks
- Traffic Analysis
- Malicious Exit Nodes



Threat 1: DNS Leaks

- DNS requests not sent through Tor network by default
- Attacker could see what websites are being visited
- External software such as
 Foxyproxy and Privoxy can be
 used to route DNS requests
 through tor network, but this is
 not default behavior



Threat 2: Traffic Analysis

- "Traffic-analysis is extracting and inferring information from network meta-data, including the volumes and timing of network packets, as well as the visible network addresses they are originating from and destined for"
- Tor is a low latency network, and thus is vulnerable to an attacker who can see both ends of a connection



Threat 3: Rogue Exit Nodes

- Traffic going over Tor is not encrypted, just anonymous
- Malicious exit node can observe traffic
- 2007: Swe researcher, Dan Egerstad, obtained emails from embassies belonging to Australia, Japan, Iran, India and Russia, publishes them on the net
- Sydney Morning Herald called it "hack of the year" in interview with Egerstad

