

Masking Up, Online

Anonymity Online
Tor vs. VPN vs. Proxy

Outline

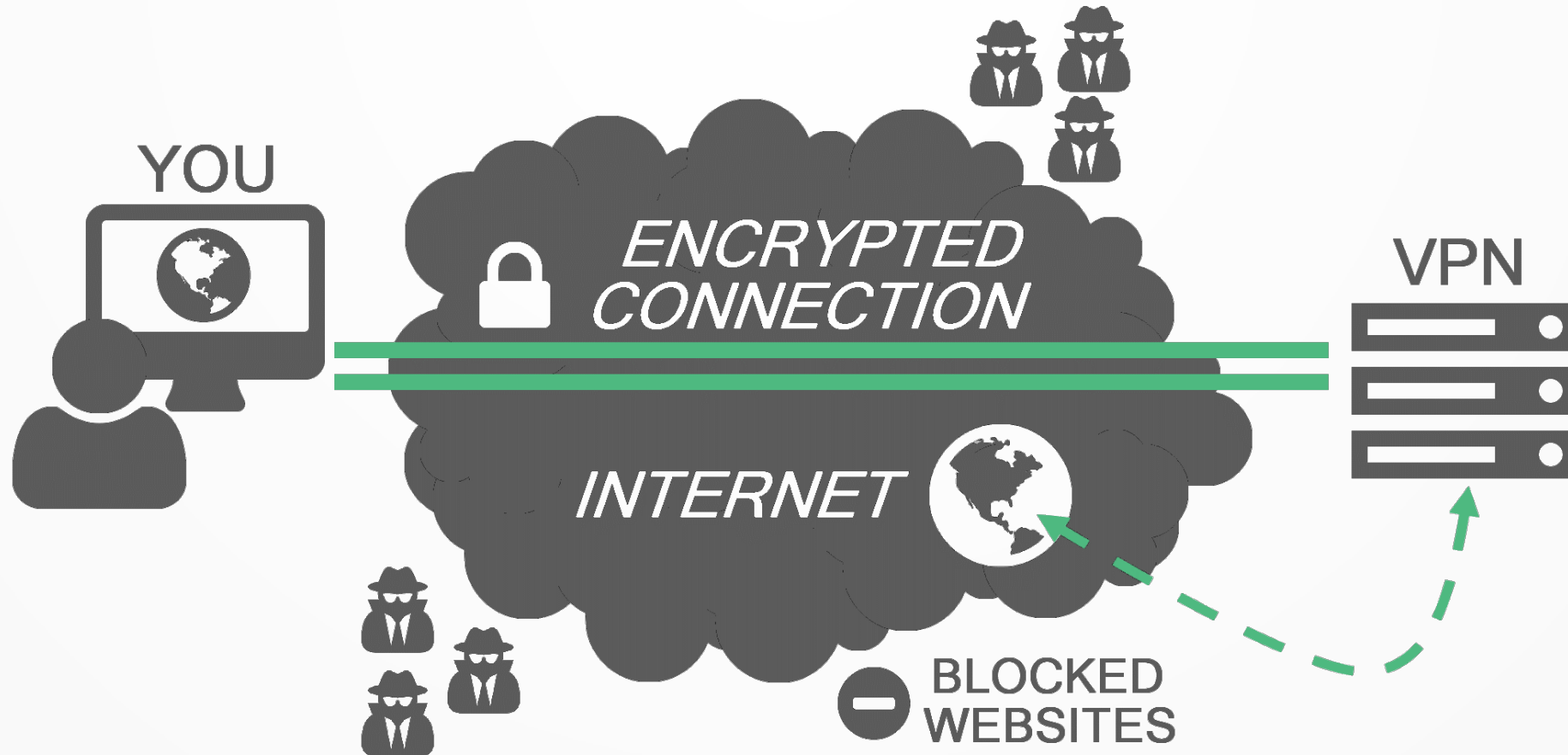
- VPN
- Tor
- Proxies
- I2P
- Compare/Contrast
- Recommendations
- Discussion



VPN

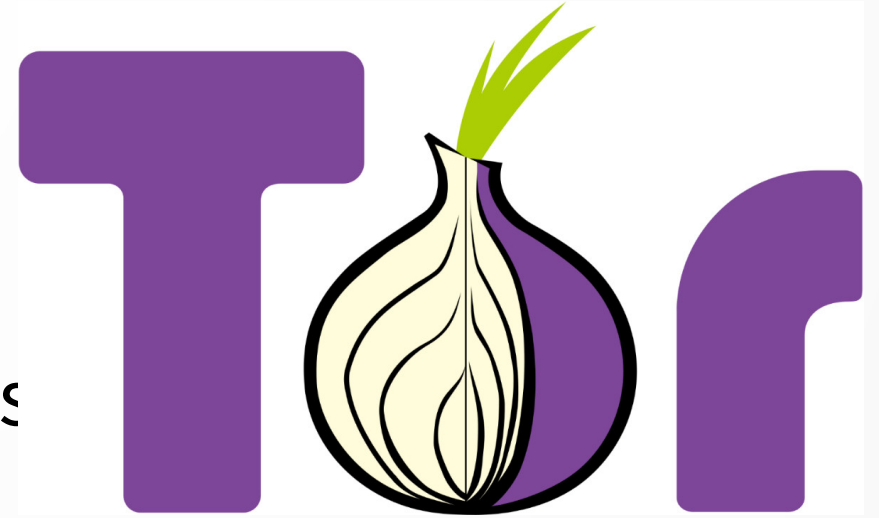
- Stands for **V**irtual **P**rivacy **N**etwork
- a network connection that enables you to create a secure connection to another location, thereby allowing you to appear as if you were in another place
- Your computer creates an encrypted virtual tunnel to the VPN server and all of your browsing appears as if it is coming from the VPN server.
- All of the Internet traffic goes through this encrypted tunnel, keeping your data from being exposed to eavesdroppers between your computer and the VPN server.

VPN Basics



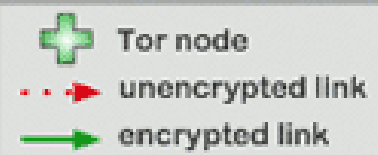
Tor

- Stands for **T**he **O**nion **R**outer
- Protocol for making your internet
- surfacing that much more anonymous
- by bouncing your connection from
- node to node all around the world



Tor 101

How Tor Works: 1



Alice



Step 1: Alice's Tor client obtains a list of Tor nodes from a directory server.



Dave

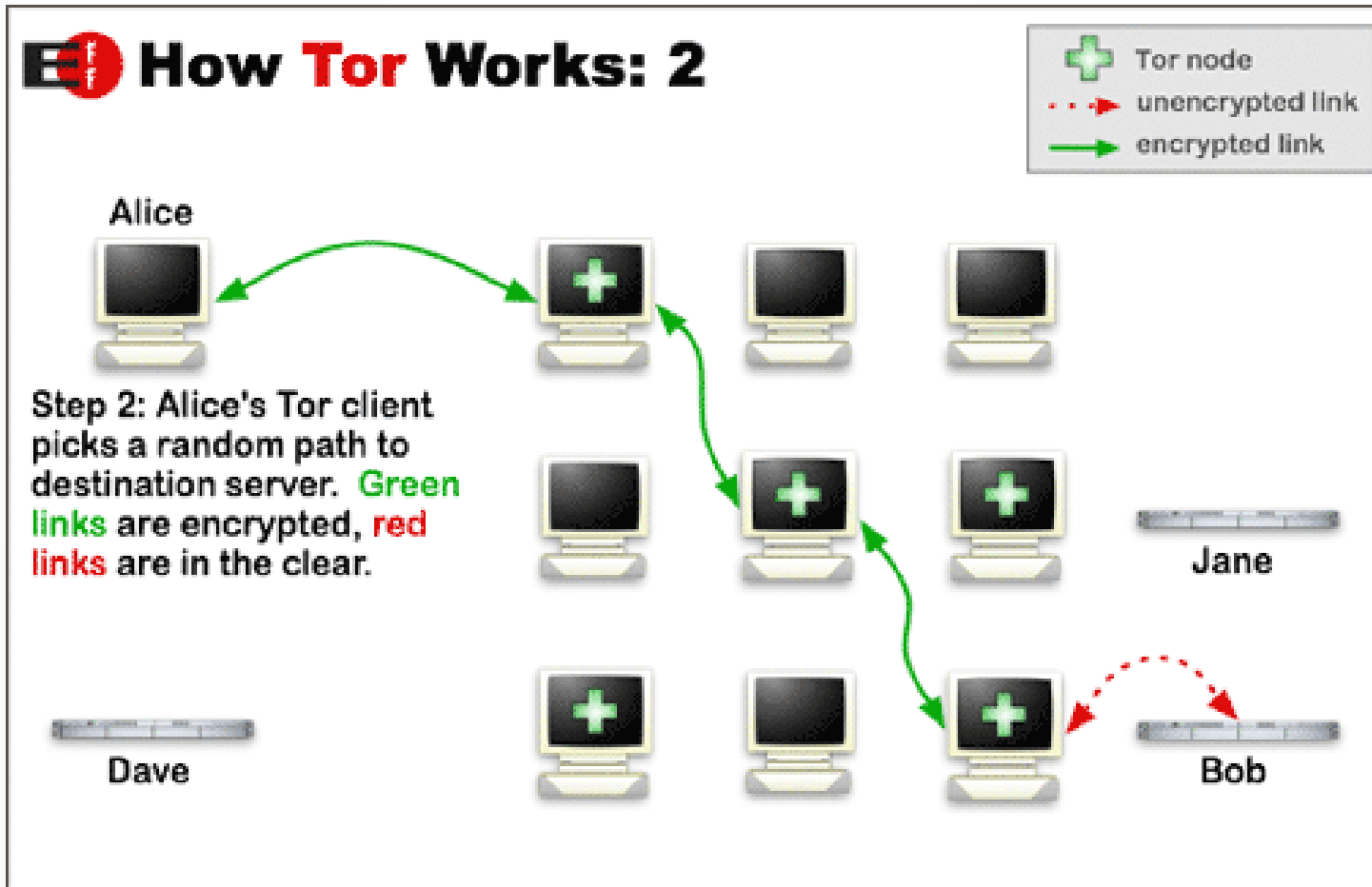


Jane

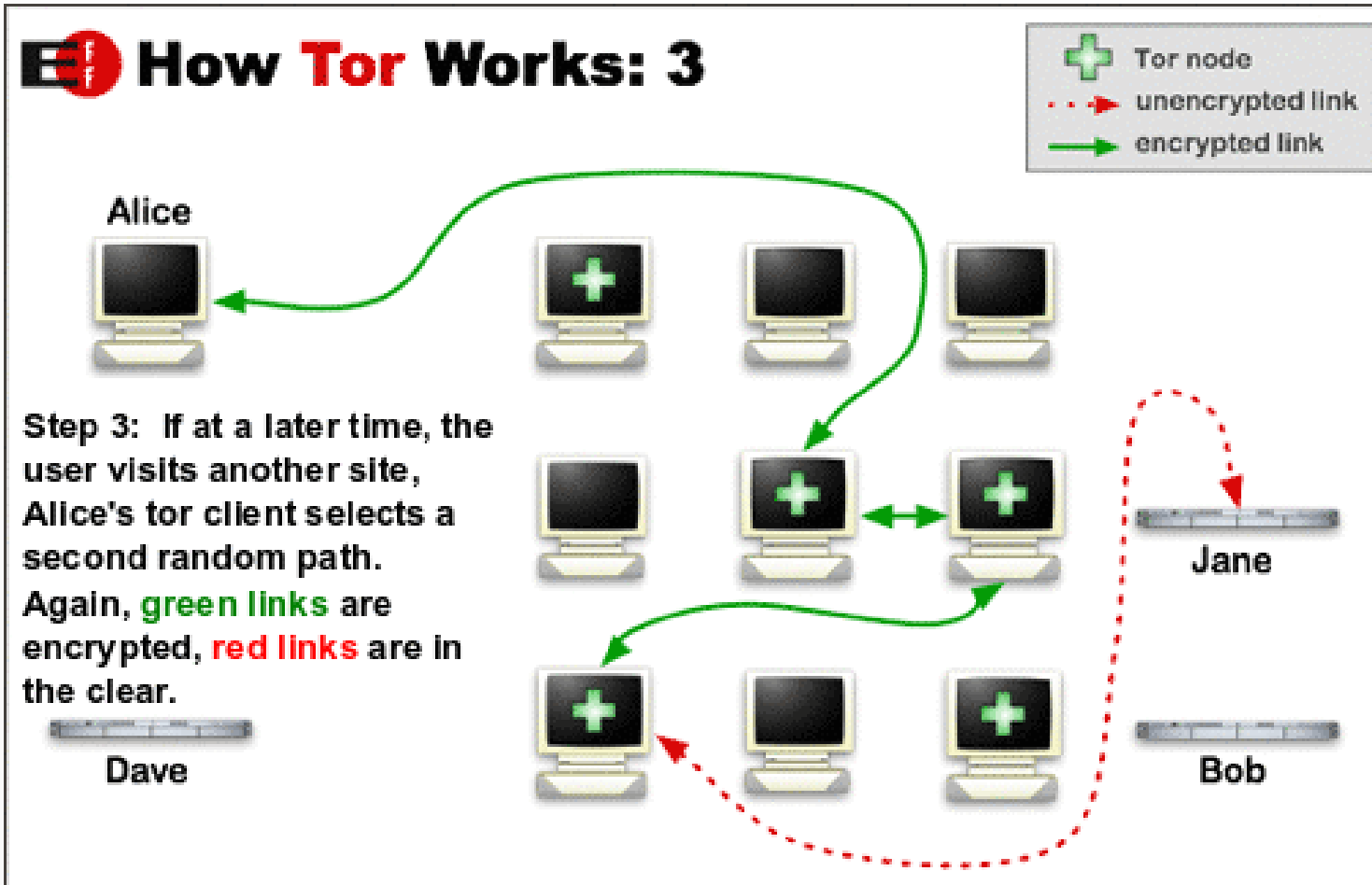


Bob

Tor 101



Tor 101



Proxy

- A proxy, like a VPN, directs your traffic via another computer instead of your own.
- While there are public and private proxy servers, only private proxies, usually paid, provide any type of stability or reliability.

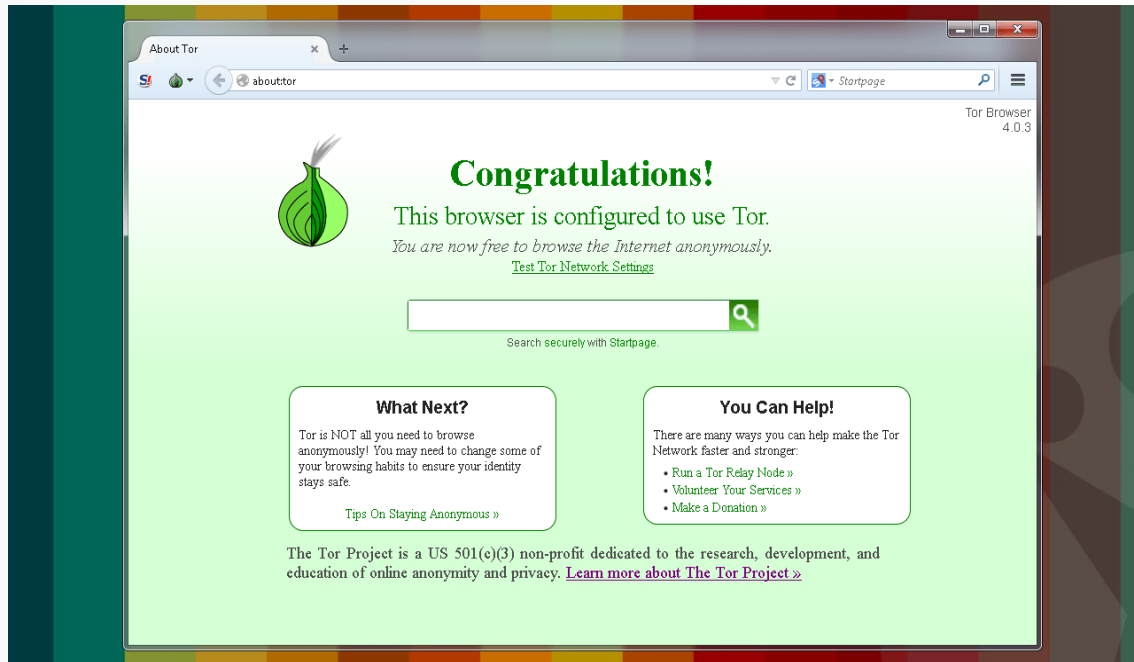
I2P

- I2P, short for the Invisible Internet Project, spawned in 2003, and is an anonymizing network that focuses on secure internal connections between users. Tor, on the other hand, largely focuses on allowing users to reach the regular internet anonymously (called the clearnet). In other words, we can think of Tor as being a path to the regular internet, while I2P seeks to create its own internet. In this light, we can already see that these two services are apples and oranges, thus there is no reason to say that one is better than another. Unfortunately this debate regularly takes place.

	Tor	VPN	Proxy
What is it?	Protocol that bounces your connections around a network to hide your surfing	Protocol that connects you to a server b4 accessing site	Protocol that connects browser you to a server b4 accessing site
When do I use it?	Accessing websites anonymously, Dark Web	Anonymous online, access foreign content	Same as VPN, bypass filters
Difficulty of Set-Up?	Just a download/install!	Depends on company, can be simple though	Lots of instructions out there
Ease of Use?	Pretty easy, though maybe slow	Depends on company, can be simple though	Like using the web regularly!
Drawbacks	Slow, not impervious to	Could be within U.S, could log your	Bare bones privacy, many keep

Recommendations

- Tor



- VPN

- Policies
- Thatoneprivacyguy
- Privacytools.io





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Let's Talk About IT!