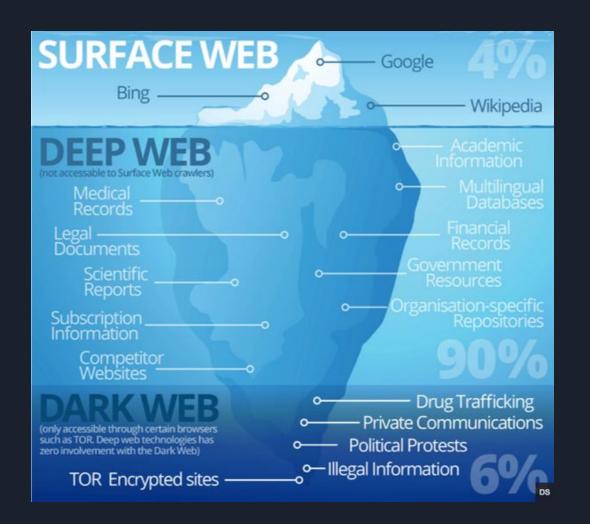
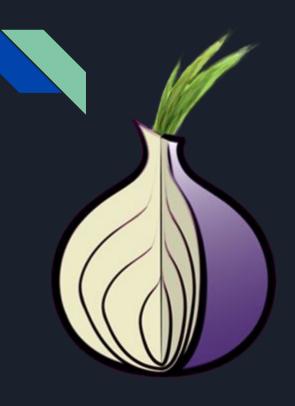
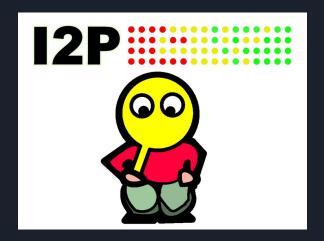
All about the Darknet







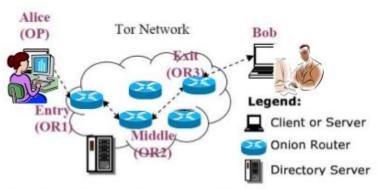


Darknet

- a collection of different custom protocols built on top of standard protocols
- purposefully hidden

TOR

Components of TOR



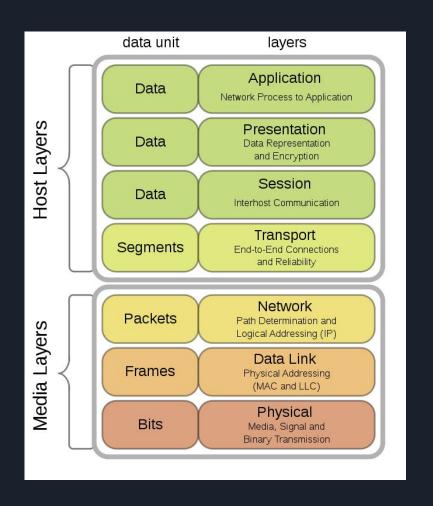
- Client: the user of the TOR network
- Server: the target TCP applications such as web servers
- TOR (onion) router: the special proxy relays the application data
- Directory server: servers holding TOR router information

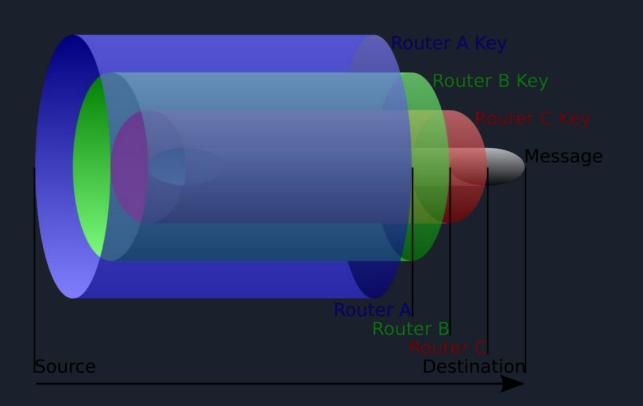
Types of Nodes

- Entry/Guard nodes
- Exit nodes
- Middle Relays
- Bridges

TOR

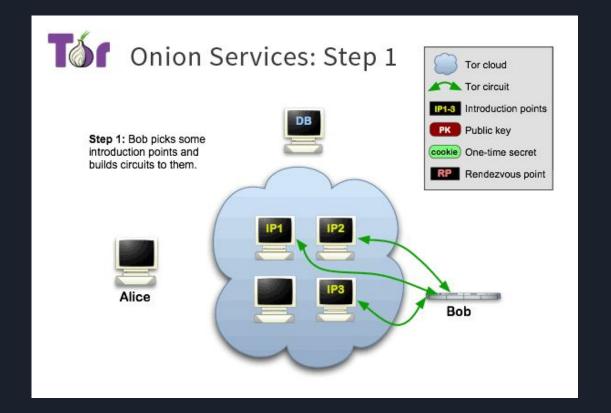
- You can route all TCP traffic through TOR
- TLS over TCP
- Recommended to use the TOR browser for connecting to .onion sites

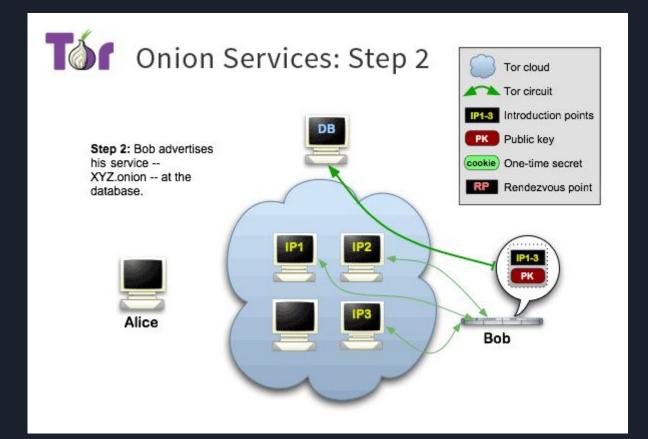


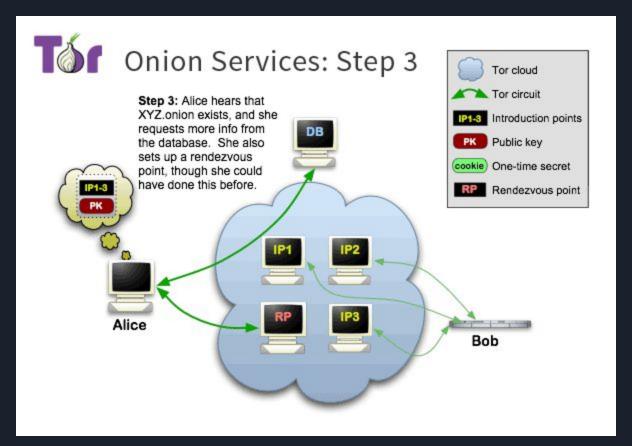


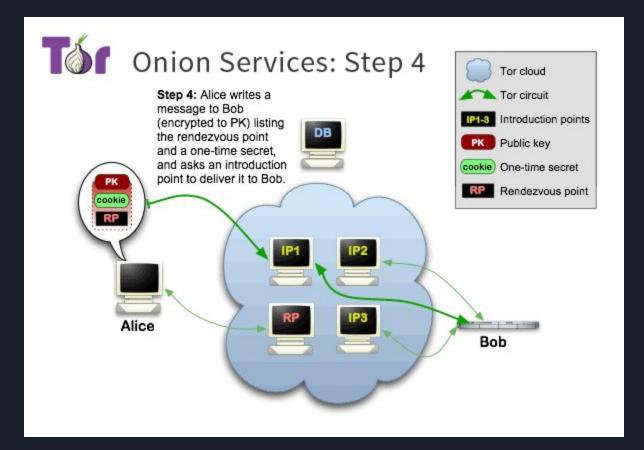
Hidden Services

- Allows host to provide a service w/o exposing their IP address
- Can only connect via TOR
- Clients can connect via a chosen rendezvous point









NOTE:

You can still easily get caught while using TOR if you're being a brainlet.

Exhibit A: Harvard Bomb Hoax

- TLDR: A Harvard student got caught sending a fake bomb threat to the school to get out of finals
- Mistake 1: Using TOR on school wifi
- Could have used a bridge or walked to the nearest McDonalds w/ wifi

Exhibit B: Lulzsec

 TLDR: Hacker group that got busted by the FBI because one galaxy brain connected to IRC via clearnet

Main TOR weaknesses

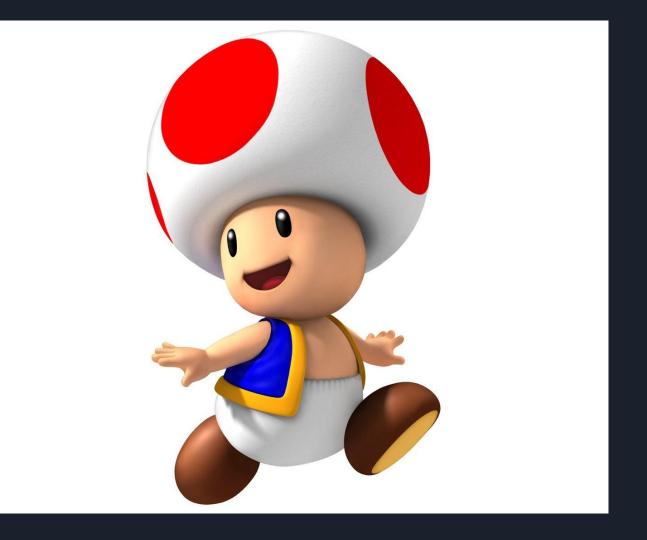
- can get pawned by exit node if the onion service doesn't encrypt their traffic
- pretty easy to tell if you're using TOR
- can be vulnerable to correlation attacks

Roleplaying Time

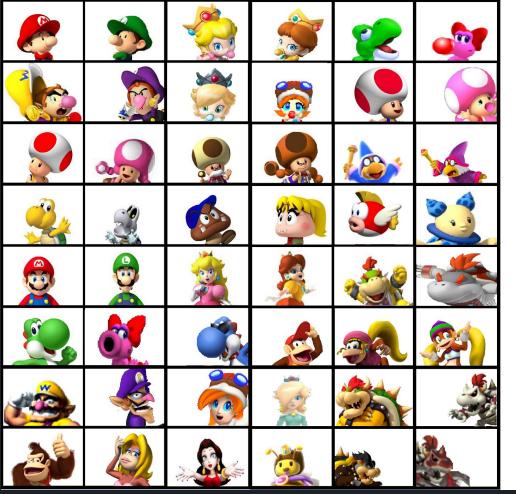












Baby Weight

Light Weight

Medium Weight

Heavy Weight

Step 1:

- Use Tails or Whonix
- Mario should make sure to encrypt his Tails Persistent Boot

Step 2

- Acquire some crypto
- Mario would use Monero if possible, but Toad is a normie and only accepts Bitcoin
- Mario should transfer his crypto to a second wallet for plausible deniability(this second wallet should be located on his Tails distro)

Step 3

- Always buy w/in the mushroom kingdom
- Speed = Safety!
- Mario should use his own name to avoid suspicion
- Mario should encrypt his address w/ Toad's PGP key