





Emerging Technologies Bitcoin 101 and Ransomware

**San Antonio, TX
May 31, 2018**

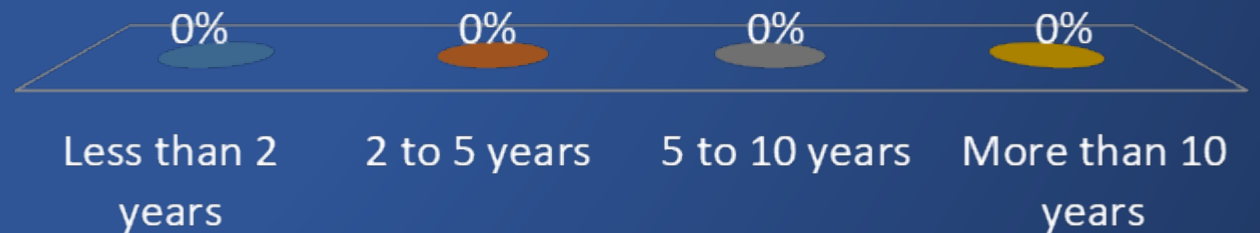
Who's in the audience?

- A. Circuit Staff Attorney
- B. CJA Panel Attorney/
Private Defense Attorney
- C. Federal Public Defender
- D. Judge
- E. Law Clerk
- F. U.S. Probation Officer
- G. U.S. Attorney
- H. Other



Years of experience with federal sentencing?

- A. Less than 2 years
- B. 2 to 5 years
- C. 5 to 10 years
- D. More than 10 years



Data Breach Prosecutions -2016 & 2017 ⁵



Data Breach Cases Prosecutions 2016-2017

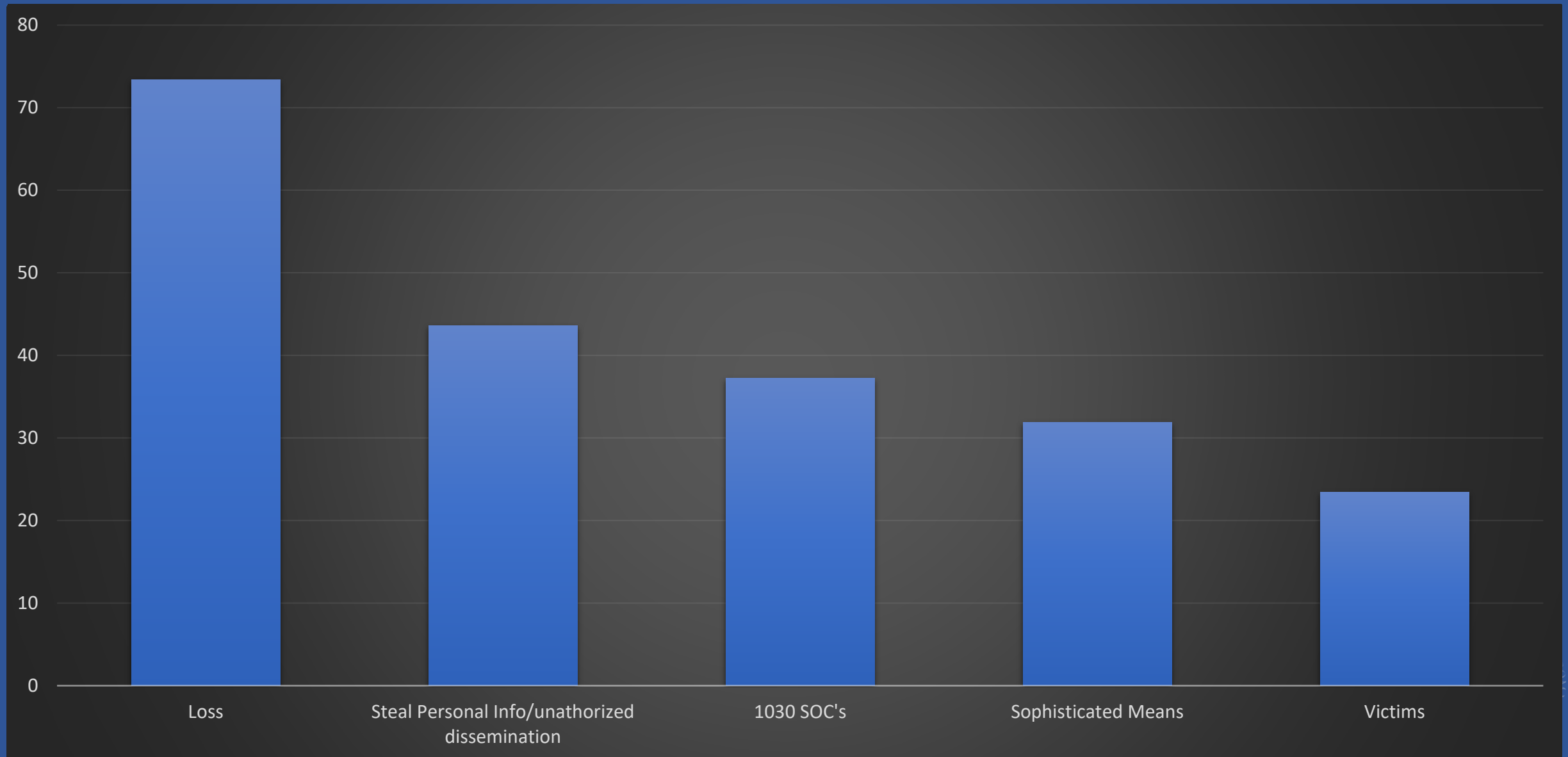
6

Convictions under 18 USC § 1030 & Sentenced under §2B1.1



Most Common Chapter 2 SOC's

7



Chapter 3 Adjustments for 18 U.S.C § 1030 cases ⁸

Chapter 3 Adjustment	Percent Applied in 18 U.S.C. § 1030 cases	For All Cases in 2017
Abuse of Position of Trust or Use of a Special Skill	26.6%	2.4%
Aggravating Role	7.4%	4.7%
Mitigating Role	0.0%	8.2%
Obstructing or Impeding the Administration of Justice	5.3%	2.1%
Acceptance of Responsibility	90.4%	95.8%



Having a Difficult Time Keeping Pace with Technology?

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What is Bitcoin?
What is a Cryptocurrency?



Ransomware?

This Attachment
Seems Harmless....
Oh No....



This case involves what?
The Onion Router?



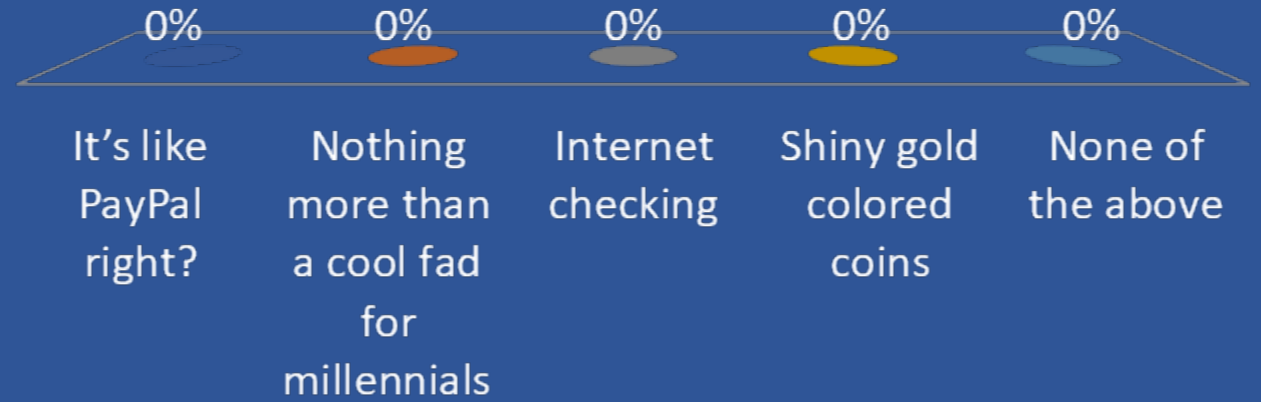
Cybercrime Cases – What is Your Comfort Level?

- A. **Excellent** – I have a Cutting Edge Knowledge of Trends and Technology.
- B. **Passable** – First Step to Learning is one Google Search Away.
- C. **Poor** – It is difficult and Overwhelming to Keep Up.
- D. **SOS** – I need help!



What is Bitcoin?

- A. It's like PayPal right?
- B. Nothing more than a cool fad for millennials
- C. Internet checking
- D. Shiny gold colored coins
- E. None of the above



When did these cases start dropping?


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Welcome! | Silk Road

http://ianxz6zefk72ulzz.onion/index.php

Most Visited Learn more about Tor The Tor Blog

Are you using Tor? list of TOR sites silkroad - Goo... TORDIR - Link List Welcome! | Silk Road




Silk Road


anonymous marketplace

Welcome
messages(0) | orders(0) | account(฿0) | settings | log out
🛒(0)


Shop by category:
Cannabis(203)
Ecstasy(35)
Psychedelics(127)
Opioids(39)
Stimulants(68)
Dissociatives(9)
Other(197)
Benzos(43)



1 hit of LSD
(blotter)
฿0.58



1/8 oz high
quality cannabis
฿2.05



1 g pure MDMA
(white)
฿1.28

Step-by-step:
1. Get **anonymous money**
2. Buy something here
3. Enjoy it when it arrives!

Vacation mode. Important
info for **sellers**...

recent feedback:

seller	rating	feedback	item
1UP of Canada(97)	4 of 5	amazing weed. the only reason this is not a 5 is because the package was so tightly double vaccuum sealed that the product was flattened, which I know is necessary for security but it still decreases quality	item
CaliforniaSunrise	5 of 5	Fast shipping. Nice packaging. I haven't tried the chocolate yet, but it looks tasty! Smooth transaction.	item
Rook	5 of 5	all good! thanks so much!	item
illy	5 of 5	Very friendly. Fast Shipping. Great packaging.	item
somatik	5 of 5	Order arrived quickly and as described. Thanks!	item
gamely54	5 of 5	No issue at all, I officially recommend this seller. Now go forth and purchase from him!	item
mellowyellow	5 of 5	Item arrived quickly and as described, good communication. This guy's legit.	item
dirtysouf(100)	5 of 5	looks good	item

Ross Ulbricht

Silk Road - Life sentence related to underlying offenses facilitated through Silk Road – Drugs – Computer Hacking – Money Laundering – Fraudulent ID Documents



U.S. Immigration and
Customs Enforcement



THIS HIDDEN SITE HAS BEEN SEIZED

as part of a joint law enforcement operation by
the Federal Bureau of Investigation, ICE Homeland Security Investigations,
and European law enforcement agencies acting through Europol and Eurojust

in accordance with the law of European Union member states
and a protective order obtained by the United States Attorney's Office for the Southern District of New York
in coordination with the U.S. Department of Justice's Computer Crime & Intellectual Property Section
issued pursuant to 18 U.S.C. § 983(j) by the
United States District Court for the Southern District of New York



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What is Tor Browser?

**BROWSER****DOWNLOAD**

Tor Browser

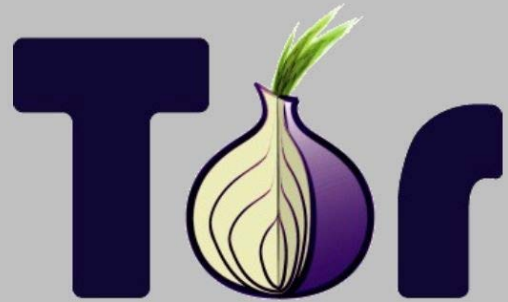
[Installation Instructions](#)[Microsoft Windows](#) • [Apple MacOS](#) • [GNU/Linux](#)

The **Tor** software protects you by bouncing your communications around a distributed network of relays run by volunteers all around the world: it prevents somebody watching your Internet connection from learning what sites you visit, it prevents the sites you visit from learning your physical location, and it lets you access sites which are blocked.

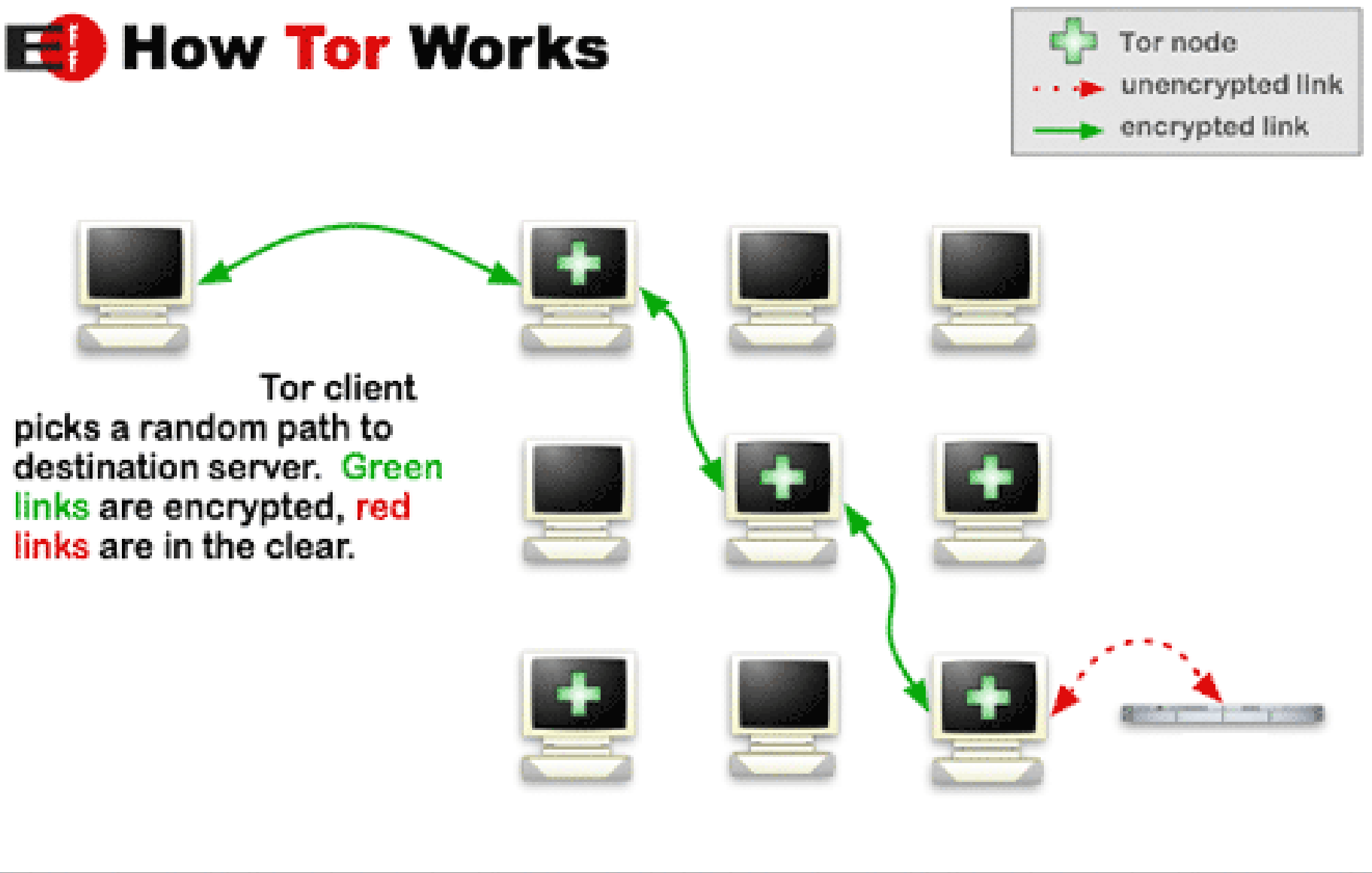
Tor Browser lets you use Tor on Microsoft Windows, Apple MacOS, or GNU/Linux without needing to install any software. It can run off a USB flash drive, comes with a pre-configured web browser to protect your anonymity, and is self-contained (portable).

[Do you like what we do? Please consider making a donation »](#)

Tor – The Onion Router



How Tor Works



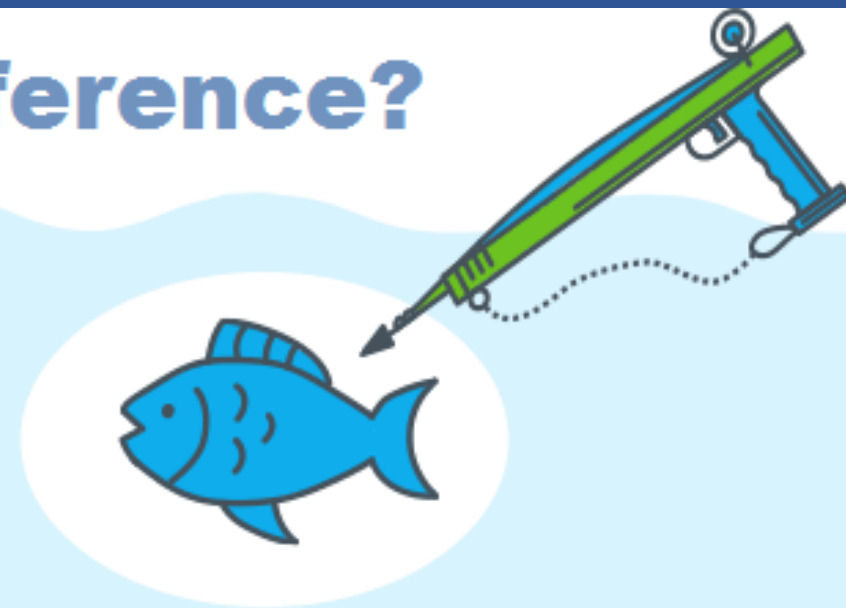
Example of Tor data transmission and encryption. Notice the red line indicating the lack of encryption outside the Tor network.

What's The Difference?



PHISHING

IS A BROAD, AUTOMATED ATTACK
THAT IS LESS SOPHISTICATED.



SPEAR-PHISHING

IS A CUSTOMIZED ATTACK ON A SPECIFIC
EMPLOYEE & COMPANY



From: "AppleID" <5i7dubsebj7p3iu7syd7oz71l@txev7wiufbg7a4qb.servicemailidsecuritywebappss.com>
Date: April 7, 2018 at 1:12:14 PM EDT
To: <[REDACTED]@yahoo.com>
Subject: [New Statement report] Your AppleID has been disabled at Sat, 07 Apr 2018, 10:12:12 AM .
Service ID#9RW3-R

Your Apple ID Has Been Disabled

Dear [REDACTED]@yahoo.com,

Review the recent login attempts on your account :

Date and Time : 07 April 2018, 10:12:13 AM

Location : Nigeria

Browser : iPhone

If you never access with the device please log into your account and verify your account.

For quick access verify your account we suggest to go to this link [Manage account >](#)

Regards

Apple Support

Phishing Attack

April 7, 2018





Payment will be raised on

5/15/2017 16:25:02

Time Left

02:23:58:28

Your files will be lost on

5/19/2017 16:25:02

Time Left

06:23:58:28

[About bitcoin](#)

[How to buy bitcoins?](#)

[Contact Us](#)

Ooops, your files have been encrypted!

What Happened to My Computer?

Your important files are encrypted.

Many of your documents, photos, videos, databases and other files are no longer accessible because they have been encrypted. Maybe you are busy looking for a way to recover your files, but do not waste your time. Nobody can recover your files without our decryption service.

Can I Recover My Files?

Sure. We guarantee that you can recover all your files safely and easily. (But you have not so enough time.)

You can try to decrypt some of your files **for free**. Try now by clicking <Decrypt>. If you want to decrypt all your files, you need to **pay**.

*You only have **3 days** to submit the payment. After that the price will be **doubled**. Also, if you don't pay in **7 days**, you won't be able to recover your files **forever**.*

How Do I Pay?



Send \$300 worth of bitcoin to this address:

[QR Code](#)

15zGqZCTcys6eCjDkE3DypCjXi6QWRV6V1

Copy

Check Payment

Decrypt

ALL YOUR FILES HAVE BEEN LOCKED!

This operating system and all of important data was locked due to the violation of the federal laws of the United States of America! (Article 1, Section 8, Clause 8; Article 202; Article 210 of the Criminal Code of U.S.A. provides for a deprivation of liberty for four to twelve years.)

Following violations were detected:

Your IP address was used to visit websites containing pornography, child pornography, zoophilia and child abuse. Your computer also contains video files with pornographic content, elements of violence and child pornography! This computer is aimed to stop your illegal activity.

To unlock your files you have to pay the penalty!

You have only 96 hours to pay the penalty, otherwise you will be arrested!

You must pay the penalty through **Bitcoin Wallet**.

To pay the penalty and unlock your data, you should send the following code:

[REDACTED]

to our agent e-mails:

thematrixhasyou9643@yahoo.com or

cremreihanob1979@yandex.ru

You will receive all necessary instructions!



HURRY UP OR YOU WILL BE ARRESTED!!!



Thank you! – Questions?

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pubaffairs@ussc.gov