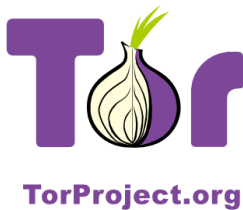


FCADV Data Security

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What are we talking about?

- Quick overview of data security and privacy
- Securing data independent of location
- Shelters, survivors, and Internets



Knowledge is power... Knowledge is happiness.

Thomas Jefferson, 1817

The Tor Project, Inc.

501(c)(3) non-profit organization dedicated to the research and development of technologies for online anonymity and privacy



Crashing into data security and privacy

- Encryption

Crashing into data security and privacy

- Encryption
- Access controls

Crashing into data security and privacy

- Encryption
- Access controls
- Backups

Crashing into data security and privacy

- Encryption
- Access controls
- Backups
- Masking

Crashing into data security and privacy

- Encryption
- Access controls
- Backups
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- Erasure

Crashing into data security and privacy

- Encryption
- Access controls
- Backups
- Masking
- Erasure
- ISO/IEC 27002 Standard

Crashing into data security

Follow the data itself. Ignore the technology used to touch it.

The life of a case file

- Data is collected.
- Data entered into ALICE.
- Then what?

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- how is it transmitted to the next stop?

The life of a case file

- Data is collected.
- Data entered into ALICE.
- Then what?
- who gets access to it?
- how is it transmitted to the next stop?
- where is it living?

Forget Alice, think about the data

- zip code, sex, date of birth are all that's needed to deanonymize someone
- ALICE computers should be separate from any other networks, such as survivor networks in a shelter, or reachable from outside the shelter.
- firewalls are just locks on a door, they stop honest people from going further.

Securing data

- disaster recovery, or where do I send a safe full of valuables?

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- encryption? It should solve all my problems, right?
- how did you encrypt the case file? all as one big file, or individually?
- subpoena can force decryption

Internet access in the shelter

- survivors will find a way to connect to the 'net
- may circumvent your controls to their own detriment
- IP address gives them away
- shared computer, cookies (browser, flash, dom, html5)
- wifi access means everyone can get on it
- private browsing mode is hardly private
- use read-only operating systems, livecd/liveusb so no one can save anything locally. Tor makes one of these, btw.
- virtual machines

OMG nevar goin' on dar Internets again!

- Risk assessment

OMG nevar goin' on dar Internets again!

- Risk assessment
- minimization of harm

OMG nevar goin' on dar Internets again!

- Risk assessment
- minimization of harm
- containment

OMG nevar goin' on dar Internets again!

- Risk assessment
- minimization of harm
- containment
- work with your vendors

Questions?



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- question mark, <http://how-to-do-it.net/>